ARCADIS

Attachment A

Data Validation /Quality Control Summary and Data Review, and Additional Data Laboratory Analytical Results

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin Corporation

Attachment A - Data Validation/Quality Control Summary and Data Review

2009 Groundwater Monitoring Report

Lockheed Martin Tallevast Site

June 5, 2009

R625-EDC-001214-0

Table of Contents

1. Data Validation/ Quality Control Summary 1

1.1 Sample Preservation and Holding Time 2

1.2 Gas Chromatograph Instrument Performance 2

1.3 Blank Contamination 2

1.4 Analytical Instrument Calibrations 2

1.5 System Monitoring Compounds 4

1.6 Internal Standard Performance 4

1.7 Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis 4

1.8 Matrix Spike Samples 5

1.9 Field Duplicates 7

1.10 System Performance 7

1.11 Data Quality Assessment Conclusion 8

2. References 8

Attachments

1 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28258

2 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28293

3 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28361-2

4 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28392

5 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28429

6 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28462

7 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28503

8 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28537

9 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28569

10 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28587

11 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28745

12 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28775

13 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28307

14 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28361-1

15 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28391

16 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28427

17 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28287

18 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28257

19 Data Review for Lockheed Martin - Tallevast, Tallevast, FL - SDG #660-28463

1. Data Validation/ Quality Control Summary

This report summarizes the analytical data and quality assurance/quality control (QA/QC) evaluation associated with the March/April 2009 annual sampling event at the Lockheed Martin Tallevast Site. A summary of the groundwater data with any applicable data qualification and data verification reports are provided in the Sample Delivery Group (SDG) Data Reviews included in Attachments 1-19 of this attachment.

The samples were analyzed by TestAmerica Laboratories, of Tampa, Florida for volatile organic compounds (VOCs) and 1,4-dioxane. Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B Total Ion Monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution (ID). Data review and verification were performed in accordance with *Organic USEPA National Functional Guidelines* (October 1999 and January 2005) and *USEPA Region II SOP HW-24, revision 2 (October 2006) Validating Volatile Organic Compounds by SW-846 Method 8260B* was also used to supplement the data review process.

Below is an overall summary of the sample analyses conducted during monitoring activities.

Field Sample Collection

Parameter	Samples	Field Duplicate	Equipment Blanks	Trip Blanks	Total
VOCs	295	16	10	8	329
Total	**295**	**16**	**10**	**8**	**329**

Note: Equipment blanks total includes equipment blanks and field blanks.

Laboratory QC samples prepared and analyzed with the field samples included method blanks, site-specific matrix spike (MS) pairs, and laboratory control samples (LCSs). Field QC samples included field blanks, trip blanks and field duplicates.

The sections below present a summary of the results of the data quality review completed by ARCADIS. The following subsections describe the various types of QA/QC parameter deviations identified during the data validation process. The complete sets of detailed data validation reports are included in the SDG Data Reviews included in Attachments 1-19 of this attachment.

1.1 Sample Preservation and Holding Time

Samples were preserved correctly with hydrochloric acid at the time of collection. All sample analyses were completed within holding time limits.

1.2 Gas Chromatograph Instrument Performance

Mass spectrometer tuning performance was acceptable. System performance and column resolution were acceptable.

1.3 Blank Contamination

Blank samples were utilized to evaluate the potential introduction of contaminants into the field samples. Method blanks, equipment blanks and trip blanks were prepared and analyzed in conjunction with the field samples to monitor potential contamination impacts during collection, shipment and analysis. Method blanks were included in each analytical batch to ensure that potential interferences associated with the analytical system, reagents, and/or laboratory glassware were identified. Trip blanks were prepared by the laboratory and shipped with sample bottles to the site, then returned to the laboratory in each cooler to evaluate potential impacts to samples during transport and storage. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Target compounds were not detected above the MDL in the associated QA blanks; therefore, detected sample results were not associated with blank contamination.

1.4 Analytical Instrument Calibrations

USEPA SW-846 Method 8260B and 8260C specify percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

Initial Calibration Criteria

All target compounds analyzed by USEPA SW-846 Method 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by USEPA SW-846 Method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by USEPA SW-846 Method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

Continuing Calibration Criteria

All target compounds analyzed by USEPA SW-846 Method 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by USEPA SW-846 Method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by USEPA SW-846 Method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

Calibration Assessment

Many Target Compound List (TCL) compounds associated with the continuing calibrations exhibited percent deviations (%D) that were greater than the 20% criteria resulting in the qualification of the associated sample results as estimated using a "J" or "UJ" qualifier, as appropriate. A detailed description of the individual qualification of the data can be found in the SDG Data Reviews included in Attachments 1-19 of this attachment. Below is a summary of the continuing calibrations that exhibited %D greater than the 90% criteria resulting in the qualification of associated sample results as rejected ("R" qualifier). All samples were non-detect prior to rejection.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-13D MW-13S MW-198 MW-199 MW-200 MW-201 MW-202 MW-14D	CCV %D	Chloroethane	92.6%

Sample Locations	Initial/Continuing	Compound	Criteria
MW-19 Trip Blank (3/24/09)			

1.5 System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogates exhibited recoveries within the control limits.

1.6 Internal Standard Performance

Internal standard performance criteria insure that the Gas Chromatography/Mass Spectrometry (GC/MS) sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard. All internal standard areas and retention times were within established limits. Details of internal standard performance are provided in the SDG Data Reviews included in Attachments 1-19 of this attachment.

1.7 Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Analysis

Laboratory Control Samples (LCSs)/Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed by the laboratory to evaluate method performance and analytical accuracy utilizing chemical standards prepared from a source different than the calibration standards in a clean matrix similar to the field samples included in an analytical batch. The LCSs/LCSDs establish control of the method within the laboratory environment from sample preparation through instrument performance without potential bias from field matrices. Percent recoveries were utilized to evaluate and qualify associated field samples based on laboratory established control limits. All LCSs/LCSDs recoveries were within laboratory control limits and acceptable relative percent difference (RPD) between the LCS/LCSD recoveries. Details of LCSs/LCSDs are provided in the SDG Data Reviews included in Attachments 1-19 of this attachment.

1.8 Matrix Spike Samples

Laboratory matrix spike (MS) and matrix spike duplicate (MSD) analyses were performed to determine precision and accuracy of the analytical method on site-specific matrix and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. Accuracy was evaluated based on the percent recoveries of the spiked compounds. Precision was based on the RPD between the MS and MSD recoveries. The MS/MSD results alone were not used to evaluate the precision and accuracy of data due to a variety of sampling and analytical conditions including heterogeneity of site samples, variability in constituent concentrations, various matrix effects, analytical batching and sample collection conditions. MS/MSD data were used in conjunction with other available QC information to formulate professional judgments and to apply qualification relative to the validity and usability of the analytical results. Laboratory established control limits, as defined in the method protocols, were utilized to evaluate MS/MSD performance. Data qualification was based on professional judgment and overall compliance with control limits.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
DW-1 (Annual)	1,1-Dichloroethene	AC	>UL
MW-123 (Annual)	1,1-Dichloroethene	>UL	>UL
	Benzene	>UL	>UL
	Toluene	AC	>UL
	Trichloroethene	>UL	>UL
MW-22 (Annual)	1,4-Dioxane (SIM)	>UL	AC
MW-90 (Annual)	Toluene	>UL	AC
8005 15th St E (PW-102) (Annual)	1,1-Dichloroethene	<LL but >10%	AC
MW-110 (Annual)	1,4-Dioxane (SIM)	AC	>UL
MW-154 (Annual)	Chlorobenzene	<LL but >10%	-
	Toluene		

AC – Acceptable

UL – Upper control limit

UL – Lower control limit

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration (D).	Detect	No action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
8005 15th St E (PW-102) (Annual)	Trichloroethene
MW-53 (Annual)	Chlorobenzene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	J
	Detect	J

Detailed discussion of the matrix spike evaluation is provided in the data validation reports in the SDG Data Reviews included in Attachments 1-19 of this attachment.

1.9 Field Duplicates

Site-specific precision was also monitored through the collection of field duplicates at the rate of approximately 1 per 20 field samples. Duplicate samples are defined as samples collected simultaneously from the location under identical conditions. Duplicate aqueous samples were collected by splitting aliquots of sample between sample bottles. Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate.

Field Duplicate Samples			
Sample ID	**Parent Sample**	**Sample Collection Date**	**Sample Delivery Group**
Dup-01	EW-109	3/20/2009	660-28307
Dup-02	MW-80	3/23/2009	660-28361-1
Dup-03	MW-134	3/24/2009	660-28391
Dup-04	MW-8D	3/25/2009	660-28429
Dup-05	MW-70	3/26/2009	660-28463
Dup-06	MW-52	3/27/2009	660-28462
Dup-07	MW-86	3/30/2009	660-28503
Dup-08	MW-190	3/31/2009	660-28537
Dup-09	MW-155	3/31/2009	660-28537
Dup-10	MW-16D	4/1/2009	660-28569
Dup-11	MW-55	4/1/2009	660-28569
Dup-12	MW-60	4/1/2009	660-28569
Dup-13	PZ-LSAS-2	4/2/2009	660-28587
Dup-14	PZ-LSAS-6	4/2/2009	660-28587
Dup-15	PZ-LSAS-7	4/2/2009	660-28587
Dup-16	MW-249	4/13/2009	660-28745

All field duplicate RPDs for values above the quantitative reporting limits were within the 50% control limit for this sampling event with the exception of the compound acetone for associated sample locations MW-55 and Dup-11. The reported results for these associated sample locations were qualified as estimated using a "J" qualifier.

1.10 System Performance

Manual integration was performed for TCL compound 1,4-dioxane analysis on the internal standard 1,4-dioxane-d8 for associated sample locations MW-252, MW-29, MW-76, MW-142, MW-245, MW-146, EW-UFAG-1, MW-17S, MW-4, PZ-LSAS-1, Dup-14 and PZ-LSAS-6. All manual integrations performed by the laboratory were

consistent from baseline to baseline of the primary quantitation ion; therefore detected sample results were not qualified. Additionally, non-detect sample results were reviewed and there was no evidence of a detectable peak of the primary quantitation ion within the retention time window of 1,4-dioxane; therefore all non-detect results were confirmed and are usable as reported.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

1.11 Data Quality Assessment Conclusion

All contaminants of concern (COC) data associated with the March/April 2009 sampling event are usable for the intended purpose. Overall, the quality control data, as defined in the USEPA SW-846 Method 8260B/8260C and laboratory performance criteria were within the guidelines specified in the method with the exception of those deviations specifically mentioned in this review. Specifically, several non-detected concentrations of chloroethane were qualified as rejected using an "R" qualifier as described in Section 1.4.

2. References

United States Environmental Protection Agency (USEPA), 2005. Organic USEPA National Functional Guidelines. January 2005.

United States Environmental Protection Agency (USEPA), 1999. Organic USEPA National Functional Guidelines. October 1999.

United States Environmental Protection Agency (USEPA), Region II, 2006. USEPA Region II SOP HW-24, revision 2 (October 2006) Validating Volatile Organic Compounds by SW-846 Method 8260B.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

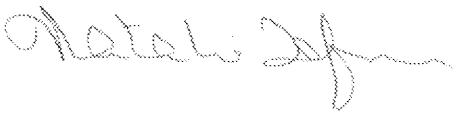
Job Number: 660-28259-1

SDG Number: 660-28259

Job Description: Tallevast UIC Wells

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
3/31/2009 4:38 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
03/31/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28259-1	**MW-42**					
Sulfate		290		10	mg/L	300.0
Total Dissolved Solids		480		10	mg/L	SM 2540C
Total Recoverable						
Nickel		0.0071	I	0.0080	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28259-1	MW-42	Water	03/18/2009 1900	03/19/2009 1115

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Client Sample ID: MW-42

Lab Sample ID: 660-28259-1
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/20/2009 1335
Date Prepared: 03/20/2009 0718

Analysis Batch: 660-76547
Prep Batch: 660-76508

Instrument ID: TJA ICP TRACE
Lab File ID: 9C20A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Nickel	0.0071	I	0.0020	0.0080
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

General Chemistry

Client Sample ID: MW-42

Lab Sample ID: 660-28259-1
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	480		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55002	Date Analyzed		03/24/2009 0820				
Sulfate	290		mg/L	4.0	10	20	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1544				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Method Blank - Batch: 660-76508

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76508/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1243
Date Prepared: 03/20/2009 0718

Analysis Batch: 660-76547
Prep Batch: 660-76508
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C20A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Nickel	0.0020	U	0.0020	0.0080
Zinc	0.0050	U	0.0050	0.020

Lab Control Spike - Batch: 660-76508

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76508/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1249
Date Prepared: 03/20/2009 0718

Analysis Batch: 660-76547
Prep Batch: 660-76508
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C20A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nickel	1.00	1.03	103	75 - 125	
Zinc	1.00	1.02	102	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76508

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28247-E-1-B MS	Analysis Batch: 660-76547	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76508	Lab File ID: 9C20A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/20/2009 1306		Final Weight/Volume: 50 mL
Date Prepared:	03/20/2009 0718		

MSD Lab Sample ID:	660-28247-E-1-C MSD	Analysis Batch: 660-76547	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76508	Lab File ID: 9C20A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/20/2009 1312		Final Weight/Volume: 50 mL
Date Prepared:	03/20/2009 0718		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nickel	100	101	75 - 125	1	20		
Zinc	99	99	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76508

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28247-E-1-B MS	Units: mg/L	MSD Lab Sample ID: 660-28247-E-1-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/20/2009 1306		Date Analyzed: 03/20/2009 1312
Date Prepared:	03/20/2009 0718		Date Prepared: 03/20/2009 0718

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nickel	0.026	1.00	1.00	1.03	1.04
Zinc	1.4	1.00	1.00	2.36	2.36

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Method Blank - Batch: 660-76981

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-76981/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1659
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-76981

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-76981/37
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1401
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	9.38	94	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28257-E-3 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1453
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

MSD Lab Sample ID: 660-28257-E-3 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1519
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	103	103	90 - 110	0	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28257-E-3 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1453
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28257-E-3 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1519
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	24	10.0	10.0	34.3	34.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Method Blank - Batch: 640-55002

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55002/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0736
Date Prepared: N/A

Analysis Batch: 640-55002
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55002

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55002/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0736
Date Prepared: N/A

Analysis Batch: 640-55002
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55002/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0736
Date Prepared: N/A

Analysis Batch: 640-55002
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	93	97	80 - 120	5	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28259-1
Sdg Number: 660-28259

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55002

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55002/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0736
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55002/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0736
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	278	291

Duplicate - Batch: 640-55002

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28227-B-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0736
Date Prepared: N/A

Analysis Batch: 640-55002
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	110	116	8	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12201

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING UIC

● TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location

Phone: Dan
Fax: 660-28259

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - UIC	B0038055.0000.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813.903.3138	813.903.3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 5 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 16

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260C	6010B	200.0_28D	REMARKS
		PRESERVATIVE						NONE	NITR. ACID	NONE	
		NUMBER OF CONTAINERS SUBMITTED									
3/18/09	1900	MW-42	G	X				1	1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3.19.09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/19/09	1115	YES ○ NO ○		660-28259	4.2°C CH07	

660-28259

TAL8240-660 (1207)

Page 18 of 21

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28259 Logged in TALS By : Amanda Harrison

Cooler Received on (date) 3-19-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: lab

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 4.2°C cw-07 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH.< 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 1

All containers pH < 2 ? yes If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 2

All containers pH between 6 and 8? yes If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? No

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28259-1
SDG Number: 660-28259

Login Number: 28259
List Source: TestAmerica Tampa
Creator: Tafuni, Natalie
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2 C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28259-1
SDG Number: 660-28259

Login Number: 28259
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/20/09 10:20 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

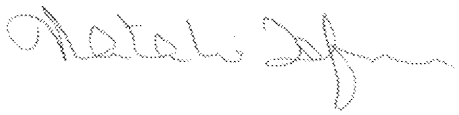
Job Number: 660-28289-1

SDG Number: 660-28289

Job Description: Tallevast - UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/1/2009 2:22 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/01/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

300.0
The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76981(job 660-28287) were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

The batch matrix spike(MS) recovery for batch 660-77112(job 660-28307) was outside of control limits. The associated laboratory control sample (LCS) and matrix spike duplicate (MSD)met acceptance criteria. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28289-1	**MW-36**					
Sulfate		180		5.0	mg/L	300.0
Total Recoverable						
Nickel		0.0080		0.0080	mg/L	6010B
660-28289-2	**MW-37**					
Sulfate		260		10	mg/L	300.0
Total Recoverable						
Nickel		0.0048	I	0.0080	mg/L	6010B
660-28289-3	**MW-40**					
Sulfate		190		5.0	mg/L	300.0
660-28289-4	**EW-105**					
Sulfate		110		5.0	mg/L	300.0
Total Dissolved Solids		290		5.0	mg/L	SM 2540C
Total Recoverable						
Manganese		0.012		0.0040	mg/L	6010B
Sodium		15		0.50	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28289-1	MW-36	Water	03/19/2009 1100	03/20/2009 1100
660-28289-2	MW-37	Water	03/19/2009 1630	03/20/2009 1100
660-28289-3	MW-40	Water	03/19/2009 1630	03/20/2009 1100
660-28289-4	EW-105	Water	03/19/2009 1635	03/20/2009 1100

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Client Sample ID: MW-36

Lab Sample ID: 660-28289-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1039
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Nickel	0.0080		0.0020	0.0080
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Client Sample ID: MW-37

Lab Sample ID: 660-28289-2
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1045
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Nickel	0.0048	I	0.0020	0.0080
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Client Sample ID: MW-40

Lab Sample ID: 660-28289-3
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1051
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Nickel	0.0020	U	0.0020	0.0080
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Client Sample ID: EW-105

Lab Sample ID: 660-28289-4
Client Matrix: Water

Date Sampled: 03/19/2009 1635
Date Received: 03/20/2009 1100

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1057
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.012		0.0010	0.0040
Sodium	15		0.31	0.50

General Chemistry

Client Sample ID: MW-36

Lab Sample ID: 660-28289-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Sulfate	180		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76981	Date Analyzed		03/31/2009 0205				

Client Sample ID: MW-37

Lab Sample ID: 660-28289-2
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Sulfate	260		mg/L	4.0	10	20	300.0
Anly Batch: 660-76981	Date Analyzed		03/31/2009 0230				

Client Sample ID: MW-40

Lab Sample ID: 660-28289-3
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Sulfate	190		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 0440				

Client Sample ID: EW-105

Lab Sample ID: 660-28289-4
Client Matrix: Water

Date Sampled: 03/19/2009 1635
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	290		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55066	Date Analyzed		03/26/2009 0738				
Sulfate	110		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 1735				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Method Blank - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76607/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0918
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Manganese	0.0010	U	0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	0.31	U	0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Lab Control Spike - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76607/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0924
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Manganese	1.00	1.00	100	75 - 125	
Nickel	1.00	1.01	101	75 - 125	
Sodium	10.0	10.2	102	75 - 125	
Zinc	1.00	1.01	101	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28308-D-2-A MS	Analysis Batch: 660-76696	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76607	Lab File ID: 9C24A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/24/2009 0941		Final Weight/Volume: 50 mL
Date Prepared:	03/23/2009 0835		

MSD Lab Sample ID:	660-28308-D-2-B MSD	Analysis Batch: 660-76696	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76607	Lab File ID: 9C24A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/24/2009 0947		Final Weight/Volume: 50 mL
Date Prepared:	03/23/2009 0835		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Manganese	100	101	75 - 125	1	20		
Nickel	100	101	75 - 125	2	20		
Sodium	111	112	75 - 125	1	20		
Zinc	98	100	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28308-D-2-A MS	Units: mg/L	MSD Lab Sample ID: 660-28308-D-2-B MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/24/2009 0941		Date Analyzed: 03/24/2009 0947
Date Prepared:	03/23/2009 0835		Date Prepared: 03/23/2009 0835

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Manganese	0.043		1.00	1.00	1.04	1.05
Nickel	0.0025	I	1.00	1.00	1.00	1.02
Sodium	15		10.0	10.0	26.1	26.3
Zinc	0.0065	I	1.00	1.00	0.982	1.00

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Method Blank - Batch: 660-76981

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-76981/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1659
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-76981

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-76981/37
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1401
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	9.38	94	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28257-E-3 MS	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/30/2009 1453			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28257-E-3 MSD	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/30/2009 1519			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	103	103	90 - 110	0	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28287-E-7 MS ^10	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 0047			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28287-E-7 MSD ^10	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	20			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 0139			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	126	134	90 - 110	2	30	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28257-E-3 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1453
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28257-E-3 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1519
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	24	10.0	10.0	34.3	34.3

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28287-E-7 MS ^10
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/31/2009 0047
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28287-E-7 MSD ^
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/31/2009 0139
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Sulfate	250	100	100	380	J3	387	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Method Blank - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77112/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0348
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77112/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0414
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	10.7	107	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28307-C-3 MS ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2010
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

MSD Lab Sample ID: 660-28307-C-3 MSD ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2036
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	115	108	90 - 110	2	30	J3	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28307-C-3 MS ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2010
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28307-C-3 MSD
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2036
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Sulfate	93	50.0	50.0	151	J3	147

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Method Blank - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55066/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55066/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55066/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	96	99	80 - 120	3	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28289-1
Sdg Number: 660-28289

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55066/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55066/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	289	297

Duplicate - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28271-D-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	5700	6470	13	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 06485

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - UIC	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (12)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	NUMBER OF CONTAINERS SUBMITTED: NONE 2540C	NITRIC ACID 6010B	NONE 300.0_28D	REMARKS
3/19/09	1100	MW-36	G	X				1	1	1	
	1630	MW-37						1	1	1	
	1630	MW-40						1	1	1	
	1635	EW-105						1	1	1	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	3/17/09	0800		3/20/09	0945		3/20/09	1100
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/20/09	1100	YES ○ NO ○		28289	2.4°C CU-07	

TAL8240-660 (1207)

Page 24 of 27

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28289 Logged in TALS By: Amanda Hanson

Cooler Received on (date) 3/20/09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking #_____

3. Temperature of rep. sample or temp blank when opened: 2.4 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH.< 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 4

All containers pH < 2 ? y/n If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 4

All containers pH between 6 and 8? y/n If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28289-1
SDG Number: 660-28289

Login Number: 28289
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28289-1
SDG Number: 660-28289

Login Number: 28289
Creator: Aaron, Terron
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/24/09 10:28 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

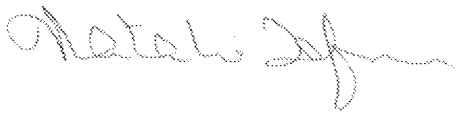
Job Number: 660-28308-1

SDG Number: 660-28308

Job Description: Tallevast - UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/2/2009 10:41 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/02/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

The matrix spike/matrix spike duplicate (MS/MSD) recoveries for batch 660-77112 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28308-1	**DUP-01**					
Sulfate		550		20	mg/L	300.0
Total Dissolved Solids		1100		10	mg/L	SM 2540C
Total Recoverable						
Manganese		0.049		0.0040	mg/L	6010B
Sodium		61		0.50	mg/L	6010B
660-28308-2	**EW-103**					
Sulfate		110	J3	5.0	mg/L	300.0
Total Dissolved Solids		290		5.0	mg/L	SM 2540C
Total Recoverable						
Manganese		0.043		0.0040	mg/L	6010B
Sodium		15		0.50	mg/L	6010B
660-28308-3	**EW-108**					
Sulfate		34		1.0	mg/L	300.0
Total Dissolved Solids		320		5.0	mg/L	SM 2540C
Total Recoverable						
Manganese		0.030		0.0040	mg/L	6010B
Sodium		22		0.50	mg/L	6010B
660-28308-4	**EW-109**					
Sulfate		550		20	mg/L	300.0
Total Dissolved Solids		1100		10	mg/L	SM 2540C
Total Recoverable						
Manganese		0.047		0.0040	mg/L	6010B
Sodium		60		0.50	mg/L	6010B
660-28308-5	**EW-1100**					
Sulfate		520		20	mg/L	300.0
Total Dissolved Solids		1100		10	mg/L	SM 2540C
Total Recoverable						
Manganese		0.10		0.0040	mg/L	6010B
Sodium		59		0.50	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28308-1	DUP-01	Water	03/20/2009 0000	03/20/2009 1900
660-28308-2	EW-103	Water	03/20/2009 1330	03/20/2009 1900
660-28308-2MS	EW-103 MS	Water	03/20/2009 1330	03/20/2009 1900
660-28308-2MSD	EW-103 MSD	Water	03/20/2009 1330	03/20/2009 1900
660-28308-3	EW-108	Water	03/20/2009 0950	03/20/2009 1900
660-28308-4	EW-109	Water	03/20/2009 1217	03/20/2009 1900
660-28308-5	EW-1100	Water	03/20/2009 1109	03/20/2009 1900

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Client Sample ID: DUP-01

Lab Sample ID: 660-28308-1
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/20/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 0959
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.049		0.0010	0.0040
Sodium	61		0.31	0.50

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Client Sample ID: EW-103

Lab Sample ID: 660-28308-2
Client Matrix: Water

Date Sampled: 03/20/2009 1330
Date Received: 03/20/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 0936
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.043		0.0010	0.0040
Sodium	15		0.31	0.50

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Client Sample ID: EW-108

Lab Sample ID: 660-28308-3
Client Matrix: Water

Date Sampled: 03/20/2009 0950
Date Received: 03/20/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1005
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.030		0.0010	0.0040
Sodium	22		0.31	0.50

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Client Sample ID: EW-109

Lab Sample ID: 660-28308-4
Client Matrix: Water

Date Sampled: 03/20/2009 1217
Date Received: 03/20/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1010
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.047		0.0010	0.0040
Sodium	60		0.31	0.50

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Client Sample ID: EW-1100

Lab Sample ID: 660-28308-5
Client Matrix: Water

Date Sampled: 03/20/2009 1109
Date Received: 03/20/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1028
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.10		0.0010	0.0040
Sodium	59		0.31	0.50

General Chemistry

Client Sample ID: DUP-01

Lab Sample ID: 660-28308-1
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	1100		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55066	Date Analyzed			03/26/2009 0738			
Sulfate	550		mg/L	8.0	20	40	300.0
Anly Batch: 660-77112	Date Analyzed			04/01/2009 1051			

Client Sample ID: EW-103

Lab Sample ID: 660-28308-2
Client Matrix: Water

Date Sampled: 03/20/2009 1330
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	290		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55066	Date Analyzed			03/26/2009 0738			
Sulfate	110	J3	mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77112	Date Analyzed			03/31/2009 2245			

Client Sample ID: EW-108

Lab Sample ID: 660-28308-3
Client Matrix: Water

Date Sampled: 03/20/2009 0950
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	320		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55066	Date Analyzed			03/26/2009 0738			
Sulfate	34		mg/L	0.40	1.0	2.0	300.0
Anly Batch: 660-77112	Date Analyzed			04/01/2009 0003			

General Chemistry

Client Sample ID: EW-109

Lab Sample ID: 660-28308-4
Client Matrix: Water

Date Sampled: 03/20/2009 1217
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	1100		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55066	Date Analyzed		03/26/2009 0738				
Sulfate	550		mg/L	8.0	20	40	300.0
Anly Batch: 660-77112	Date Analyzed		04/01/2009 1116				

Client Sample ID: EW-1100

Lab Sample ID: 660-28308-5
Client Matrix: Water

Date Sampled: 03/20/2009 1109
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	1100		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55066	Date Analyzed		03/26/2009 0738				
Sulfate	520		mg/L	8.0	20	40	300.0
Anly Batch: 660-77112	Date Analyzed		04/01/2009 1142				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Method Blank - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76607/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0918
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Manganese	0.0010	U	0.0010	0.0040
Sodium	0.31	U	0.31	0.50

Lab Control Spike - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76607/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0924
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Manganese	1.00	1.00	100	75 - 125	
Sodium	10.0	10.2	102	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28308-2	Analysis Batch: 660-76696	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76607	Lab File ID: 9C24A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/24/2009 0941		Final Weight/Volume: 50 mL
Date Prepared:	03/23/2009 0835		

MSD Lab Sample ID:	660-28308-2	Analysis Batch: 660-76696	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76607	Lab File ID: 9C24A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/24/2009 0947		Final Weight/Volume: 50 mL
Date Prepared:	03/23/2009 0835		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Manganese	100	101	75 - 125	1	20		
Sodium	111	112	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76607

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28308-2	Units: mg/L	MSD Lab Sample ID: 660-28308-2
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/24/2009 0941		Date Analyzed: 03/24/2009 0947
Date Prepared:	03/23/2009 0835		Date Prepared: 03/23/2009 0835

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Manganese	0.043	1.00	1.00	1.04	1.05
Sodium	15	10.0	10.0	26.1	26.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Method Blank - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77112/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0348
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77112/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0414
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	10.7	107	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28308-2
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2311
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

MSD Lab Sample ID: 660-28308-2
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2337
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	117	116	90 - 110	0	30	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28308-2
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2311
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28308-2
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2337
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Sulfate	98	50.0	50.0	157	J3	156	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Method Blank - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55066/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55066/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55066/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	96	99	80 - 120	3	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28308-1
Sdg Number: 660-28308

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55066/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55066/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	289	297

Duplicate - Batch: 640-55066

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28271-D-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0738
Date Prepared: N/A

Analysis Batch: 640-55066
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	5700	6470	13	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12203

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location: 660-28308
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - UIC	B063805.0020.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.Thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable): UIC		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE (5)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 2540C	6010B	300.0-28D	Mn/Na							REMARKS
								PRESERVATIVE: none	nitric acid	none	NITRIC ACID							
								NUMBER OF CONTAINERS SUBMITTED										
3/20/09	—	DUP-01	G	X				1	1	1	1							
	1330	EW-103						1	1	1	—							
	1330	EW-103 MS/MSD						1	1	1	1							
	0950	EW-108						1	1	1	—							
	1217	EW-109						1	1	1	—							
	1109	EW-110						1	1	1	—							

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	1900			
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE 3/17/09	TIME	RECEIVED BY: (SIGNATURE)	DATE 3-2009	TIME 1900	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-20-09	1900	YES ○ NO ○		660-28308	2.5°C cw07	

TAL8240-660 (1207)

Page 23 of 26

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28308 Logged in TALS By: Amanda Harrison

Cooler Received on (date) 3-20-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.5°C au-07 *Degrees Celsius*

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH.< 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 8

All containers pH < 2 ? Y If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 12

All containers pH between 6 and 8? Y If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28308-1
SDG Number: 660-28308

Login Number: 28308
List Source: TestAmerica Tampa
Creator: Volz, Charles
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28308-1
SDG Number: 660-28308

Login Number: 28308
Creator: Aaron, Terron
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/24/09 10:28 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

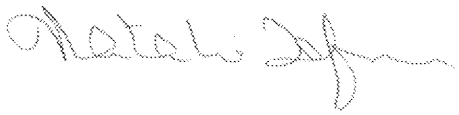
Job Number: 660-28355-1

SDG Number: 660-28355

Job Description: Tallevast - UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/3/2009 3:31 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/03/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

300.0
The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-77112(job 660-28308) were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-77166(job 660-28361) were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

6010B
The matrix spike duplicate (MSD) recoveries for batch 660-76826 were outside control limits for Fe and Na. The associated laboratory control sample (LCS) and matrix spike (MS) met acceptance criteria. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28355-1	**MW-72**					
Sulfate		460		20	mg/L	300.0
Total Dissolved Solids		880		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.64		0.20	mg/L	6010B
Iron		11	J3	0.20	mg/L	6010B
Manganese		0.016		0.0040	mg/L	6010B
Sodium		50	J3	0.50	mg/L	6010B
Zinc		0.012	I	0.020	mg/L	6010B
660-28355-2	**MW-80**					
Sulfate		270		10	mg/L	300.0
Total Dissolved Solids		770		10	mg/L	SM 2540C
Total Recoverable						
Iron		0.47		0.20	mg/L	6010B
Manganese		0.052		0.0040	mg/L	6010B
Sodium		32		0.50	mg/L	6010B
660-28355-3	**DUP-02**					
Sulfate		280		10	mg/L	300.0
Total Dissolved Solids		770		10	mg/L	SM 2540C
Total Recoverable						
Iron		0.43		0.20	mg/L	6010B
Manganese		0.049		0.0040	mg/L	6010B
Sodium		31		0.50	mg/L	6010B
Zinc		0.012	I	0.020	mg/L	6010B
660-28355-4	**EW-104**					
Sulfate		140		5.0	mg/L	300.0
Total Dissolved Solids		320		5.0	mg/L	SM 2540C
Total Recoverable						
Manganese		0.045		0.0040	mg/L	6010B
Sodium		24		0.50	mg/L	6010B
660-28355-5	**EB-01**					
Sulfate		0.92		0.50	mg/L	300.0
Total Dissolved Solids		14		5.0	mg/L	SM 2540C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28355-6	**MW-32**					
Sulfate		250		10	mg/L	300.0
Total Dissolved Solids		500		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.097	I	0.20	mg/L	6010B
Iron		22		0.20	mg/L	6010B
Manganese		0.016		0.0040	mg/L	6010B
Sodium		34		0.50	mg/L	6010B
Zinc		0.0058	I	0.020	mg/L	6010B
660-28355-7	**MW-33**					
Sulfate		260		10	mg/L	300.0
Total Dissolved Solids		650		10	mg/L	SM 2540C
Total Recoverable						
Iron		17		0.20	mg/L	6010B
Manganese		0.17		0.0040	mg/L	6010B
Nickel		0.0030	I	0.0080	mg/L	6010B
Sodium		50		0.50	mg/L	6010B
660-28355-8	**MW-43**					
Sulfate		220		10	mg/L	300.0
Total Dissolved Solids		720		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.090	I	0.20	mg/L	6010B
Chromium		0.0027	I	0.010	mg/L	6010B
Iron		7.8		0.20	mg/L	6010B
Manganese		0.10		0.0040	mg/L	6010B
Nickel		0.0033	I	0.0080	mg/L	6010B
Sodium		54		0.50	mg/L	6010B
Zinc		0.017	I	0.020	mg/L	6010B
660-28355-10	**MW-71**					
Total Dissolved Solids		200		5.0	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.14	I	0.20	mg/L	6010B
Iron		1.1		0.20	mg/L	6010B
Manganese		0.0061		0.0040	mg/L	6010B
Sodium		19		0.50	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28355-1	MW-72	Water	03/23/2009 1548	03/24/2009 1420
660-28355-2	MW-80	Water	03/23/2009 1702	03/24/2009 1420
660-28355-3	Dup-02	Water	03/23/2009 0000	03/24/2009 1420
660-28355-4	EW-104	Water	03/23/2009 1530	03/24/2009 1420
660-28355-5	EB-01	Water	03/23/2009 1425	03/24/2009 1420
660-28355-6	MW-32	Water	03/23/2009 1300	03/24/2009 1420
660-28355-7	MW-33	Water	03/23/2009 1215	03/24/2009 1420
660-28355-8	MW-43	Water	03/23/2009 1230	03/24/2009 1420
660-28355-10	MW-71	Water	03/23/2009 1342	03/24/2009 1420

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: MW-72

Lab Sample ID: 660-28355-1
Client Matrix: Water

Date Sampled: 03/23/2009 1548
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1315
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.64		0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	11	J3	0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.016		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	50	J3	0.31	0.50
Zinc	0.012	I	0.0050	0.020

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: MW-80

Lab Sample ID: 660-28355-2
Client Matrix: Water

Date Sampled: 03/23/2009 1702
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1338
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.47		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.052		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	32		0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: Dup-02

Lab Sample ID: 660-28355-3
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1344
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.43		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.049		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	31		0.31	0.50
Zinc	0.012	I	0.0050	0.020

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: EW-104

Lab Sample ID: 660-28355-4
Client Matrix: Water

Date Sampled: 03/23/2009 1530
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1349
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.045		0.0010	0.0040
Sodium	24		0.31	0.50

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: EB-01

Lab Sample ID: 660-28355-5
Client Matrix: Water

Date Sampled: 03/23/2009 1425
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1413
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.0010	U	0.0010	0.0040
Sodium	0.31	U	0.31	0.50

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: MW-32

Lab Sample ID: 660-28355-6
Client Matrix: Water

Date Sampled: 03/23/2009 1300
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1419
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.097	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	22		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.016		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	34		0.31	0.50
Zinc	0.0058	I	0.0050	0.020

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: MW-33

Lab Sample ID: 660-28355-7
Client Matrix: Water

Date Sampled: 03/23/2009 1215
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1425
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	17		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.17		0.0010	0.0040
Nickel	0.0030	I	0.0020	0.0080
Sodium	50		0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: MW-43

Lab Sample ID: 660-28355-8
Client Matrix: Water

Date Sampled: 03/23/2009 1230
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1431
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.090	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0027	I	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	7.8		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.10		0.0010	0.0040
Nickel	0.0033	I	0.0020	0.0080
Sodium	54		0.31	0.50
Zinc	0.017	I	0.0050	0.020

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Client Sample ID: MW-71

Lab Sample ID: 660-28355-10
Client Matrix: Water

Date Sampled: 03/23/2009 1342
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1443
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.14	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	1.1		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0061		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	19		0.31	0.50
Zinc	0.0050	U	0.0050	0.020

General Chemistry

Client Sample ID: MW-72

Lab Sample ID: 660-28355-1
Client Matrix: Water

Date Sampled: 03/23/2009 1548
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	880		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	460		mg/L	8.0	20	40	300.0
Anly Batch: 660-77112	Date Analyzed		04/01/2009 1208				

Client Sample ID: MW-80

Lab Sample ID: 660-28355-2
Client Matrix: Water

Date Sampled: 03/23/2009 1702
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	770		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	270		mg/L	4.0	10	20	300.0
Anly Batch: 660-77112	Date Analyzed		04/01/2009 0146				

Client Sample ID: Dup-02

Lab Sample ID: 660-28355-3
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	770		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	280		mg/L	4.0	10	20	300.0
Anly Batch: 660-77112	Date Analyzed		04/01/2009 0212				

General Chemistry

Client Sample ID: EW-104

Lab Sample ID: 660-28355-4
Client Matrix: Water

Date Sampled: 03/23/2009 1530
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	320		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	140		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77112	Date Analyzed		04/01/2009 0238				

Client Sample ID: EB-01

Lab Sample ID: 660-28355-5
Client Matrix: Water

Date Sampled: 03/23/2009 1425
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	14		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	0.92		mg/L	0.20	0.50	1.0	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 1617				

Client Sample ID: MW-32

Lab Sample ID: 660-28355-6
Client Matrix: Water

Date Sampled: 03/23/2009 1300
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	500		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	250		mg/L	4.0	10	20	300.0
Anly Batch: 660-77166	Date Analyzed		04/01/2009 1443				

Client Sample ID: MW-33

Lab Sample ID: 660-28355-7
Client Matrix: Water

Date Sampled: 03/23/2009 1215
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	650		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	260		mg/L	4.0	10	20	300.0
Anly Batch: 660-77166	Date Analyzed		04/01/2009 1535				

General Chemistry

Client Sample ID: MW-43

Lab Sample ID: 660-28355-8
Client Matrix: Water

Date Sampled: 03/23/2009 1230
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	720		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				
Sulfate	220		mg/L	4.0	10	20	300.0
Anly Batch: 660-77166	Date Analyzed		04/01/2009 1627				

Client Sample ID: MW-71

Lab Sample ID: 660-28355-10
Client Matrix: Water

Date Sampled: 03/23/2009 1342
Date Received: 03/24/2009 1420

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	200		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55193	Date Analyzed		03/30/2009 1325				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Method Blank - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76826/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1257
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.050	U	0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0010	U	0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	0.31	U	0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Lab Control Spike - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76826/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1303
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	1.00	0.987	99	75 - 125	
Arsenic	1.00	0.993	99	75 - 125	
Beryllium	1.00	1.03	103	75 - 125	
Cadmium	1.00	0.973	97	75 - 125	
Chromium	0.990	1.02	103	75 - 125	
Copper	1.00	0.971	97	75 - 125	
Iron	1.00	1.04	104	75 - 125	
Lead	1.00	1.04	104	75 - 125	
Manganese	1.00	1.03	103	75 - 125	
Nickel	1.00	1.04	104	75 - 125	
Sodium	10.0	9.95	100	75 - 125	
Zinc	1.00	1.06	106	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28355-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1320
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28355-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1326
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	103	107	75 - 125	2	20		
Arsenic	103	105	75 - 125	2	20		
Beryllium	104	106	75 - 125	2	20		
Cadmium	97	99	75 - 125	2	20		
Chromium	103	105	75 - 125	2	20		
Copper	99	101	75 - 125	2	20		
Iron	123	147	75 - 125	2	20		J3
Lead	104	105	75 - 125	1	20		
Manganese	103	106	75 - 125	2	20		
Nickel	103	105	75 - 125	2	20		
Sodium	124	131	75 - 125	1	20		J3
Zinc	103	106	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28355-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1320
Date Prepared: 03/26/2009 1247

Units: mg/L

MSD Lab Sample ID: 660-28355-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1326
Date Prepared: 03/26/2009 1247

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Aluminum	0.64		1.00	1.00	1.67	1.71	
Arsenic	0.0040	U	1.00	1.00	1.03	1.05	
Beryllium	0.00050	U	1.00	1.00	1.04	1.06	
Cadmium	0.0010	U	1.00	1.00	0.967	0.988	
Chromium	0.0020	U	0.990	0.990	1.02	1.04	
Copper	0.0029	U	1.00	1.00	0.990	1.01	
Iron	11		1.00	1.00	12.2	12.4	J3
Lead	0.0020	U	1.00	1.00	1.04	1.05	
Manganese	0.016		1.00	1.00	1.05	1.07	
Nickel	0.0020	U	1.00	1.00	1.03	1.05	
Sodium	50		10.0	10.0	62.7	63.3	J3
Zinc	0.012	I	1.00	1.00	1.04	1.07	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Method Blank - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77112/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0348
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77112/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0414
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	10.7	107	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28308-C-2 MS ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2311
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

MSD Lab Sample ID: 660-28308-C-2 MSD ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2337
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	117	116	90 - 110	0	30	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28308-C-2 MS ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2311
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28308-C-2 MSD
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2337
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Sulfate	98	50.0	50.0	157	J3	156	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Method Blank - Batch: 660-77166

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77166/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1326
Date Prepared: N/A

Analysis Batch: 660-77166
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77166

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77166/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1351
Date Prepared: N/A

Analysis Batch: 660-77166
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	9.84	98	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77166

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28361-E-1 MS ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 04/02/2009 1345
Date Prepared: N/A

Analysis Batch: 660-77166
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

MSD Lab Sample ID: 660-28361-E-1 MSD ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 04/02/2009 1411
Date Prepared: N/A

Analysis Batch: 660-77166
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	115	111	90 - 110	2	30	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77166

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28361-E-1 MS ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 04/02/2009 1345
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28361-E-1 MSD ^
Client Matrix: Water
Dilution: 10
Date Analyzed: 04/02/2009 1411
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Sulfate	79	50.0	50.0	137	J3	135	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Method Blank - Batch: 640-55193

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55193/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1237
Date Prepared: N/A

Analysis Batch: 640-55193
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55193

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55193/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1237
Date Prepared: N/A

Analysis Batch: 640-55193
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55193/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1237
Date Prepared: N/A

Analysis Batch: 640-55193
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	99	100	80 - 120	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28355-1
Sdg Number: 660-28355

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55193

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55193/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1237
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55193/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1237
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	296	300

Duplicate - Batch: 640-55193

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28376-C-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1237
Date Prepared: N/A

Analysis Batch: 640-55193
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	200	188	6	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12204

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28355
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast-UIC	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33615		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: NONE 2540C	NITR. ACID 6010B	NONE 300.0_28D (Bromide & Sulfate)	NONE 300.0_28D (Sulfate)	NITR. ACID 6010B (Mn/Na)	REMARKS
3/23/09	~~1548~~ 1015	MW-72	G	X				1	1	—	1	—	* Please run the
	1702	MW-80						1	1	—	1	—	UIC 300.0_28D (Sulfate)
	—	DUP-02						1	1	—	1	—	analysis from the
	1530	EW-104						1	—	—	1	1	IRAP 300.028D (Bromide)
	1425	EB-01						1	—	—	1	1	sample for MW-44
	1300	MW-32						1	1	—	1	—	and MW-71
	1215	MW-33						1	1	—	1	—	
	1230	MW-43						1	1	—	1	—	
	1550	MW-44						1	1	—	*	—	
	1342	MW-71						1	1	—	*	—	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305		3/24/09	1420
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305	Amanda Hamilton	3/24/09	1420

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hamilton	3/24/09	1420	YES ○ NO ○		6060-28355	2.6°, 2.9°, 3.4°, & 3.1°C	CC-07

TAL 6240-660 (1207)

Page 32 of 35

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28355 Logged in TALS By: Amanda Hamm

Cooler Received on (date) 3/24/09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.6°, 2.9°, 3.4°, & 3.1 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 12

All containers pH < 2 ? Yes If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 21

All containers pH between 6 and 8? Yes If not please comment below:

EQB ph = 5 (AFDI water)

_____

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28355-1
SDG Number: 660-28355

Login Number: 28355
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6, 2.9, 3.4, and 3.1 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	rec'd an extra metal for EW-104 and an extra un-p for MW-32
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28355-1
SDG Number: 660-28355

Login Number: 28355
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/26/09 11:04 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

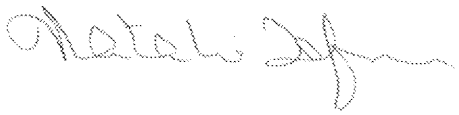
Job Number: 660-28397-1

SDG Number: 660-28397

Job Description: Tallevast-UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/13/2009 2:31 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/13/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28397-1	**EW-101**				
Sulfate		120	5.0	mg/L	300.0
Total Dissolved Solids		280	5.0	mg/L	SM 2540C
Total Recoverable					
Manganese		0.0089	0.0040	mg/L	6010B
Sodium		17	0.50	mg/L	6010B
660-28397-2	**EW-106**				
Sulfate		160	5.0	mg/L	300.0
Total Dissolved Solids		340	10	mg/L	SM 2540C
Total Recoverable					
Manganese		0.031	0.0040	mg/L	6010B
Sodium		28	0.50	mg/L	6010B
660-28397-3	**EW-107**				
Sulfate		59	2.5	mg/L	300.0
Total Dissolved Solids		150	5.0	mg/L	SM 2540C
Total Recoverable					
Manganese		0.013	0.0040	mg/L	6010B
Sodium		5.3	0.50	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28397-1	EW-101	Water	03/24/2009 1217	03/25/2009 1500
660-28397-2	EW-106	Water	03/24/2009 1310	03/25/2009 1500
660-28397-3	EW-107	Water	03/24/2009 1045	03/25/2009 1500

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Client Sample ID: EW-101

Lab Sample ID: 660-28397-1
Client Matrix: Water

Date Sampled: 03/24/2009 1217
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0932
Date Prepared: 03/30/2009 1342

Analysis Batch: 660-77141
Prep Batch: 660-77020

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.0089		0.0010	0.0040
Sodium	17		0.31	0.50

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Client Sample ID: EW-106

Lab Sample ID: 660-28397-2
Client Matrix: Water

Date Sampled: 03/24/2009 1310
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0955
Date Prepared: 03/30/2009 1342

Analysis Batch: 660-77141
Prep Batch: 660-77020

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.031		0.0010	0.0040
Sodium	28		0.31	0.50

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Client Sample ID: EW-107

Lab Sample ID: 660-28397-3
Client Matrix: Water

Date Sampled: 03/24/2009 1045
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1001
Date Prepared: 03/30/2009 1342

Analysis Batch: 660-77141
Prep Batch: 660-77020

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.013		0.0010	0.0040
Sodium	5.3		0.31	0.50

General Chemistry

Client Sample ID: EW-101

Lab Sample ID: 660-28397-1
Client Matrix: Water

Date Sampled: 03/24/2009 1217
Date Received: 03/25/2009 1500

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	280		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55246	Date Analyzed		03/31/2009 1229				
Sulfate	120		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77225	Date Analyzed		04/03/2009 1106				

Client Sample ID: EW-106

Lab Sample ID: 660-28397-2
Client Matrix: Water

Date Sampled: 03/24/2009 1310
Date Received: 03/25/2009 1500

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	340		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55246	Date Analyzed		03/31/2009 1229				
Sulfate	160		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77225	Date Analyzed		04/03/2009 1224				

Client Sample ID: EW-107

Lab Sample ID: 660-28397-3
Client Matrix: Water

Date Sampled: 03/24/2009 1045
Date Received: 03/25/2009 1500

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	150		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55246	Date Analyzed		03/31/2009 1229				
Sulfate	59		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-77225	Date Analyzed		04/03/2009 1249				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Method Blank - Batch: 660-77020

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77020/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0914
Date Prepared: 03/30/2009 1342

Analysis Batch: 660-77141
Prep Batch: 660-77020
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Manganese	0.0010	U	0.0010	0.0040
Sodium	0.31	U	0.31	0.50

Lab Control Spike - Batch: 660-77020

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77020/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0920
Date Prepared: 03/30/2009 1342

Analysis Batch: 660-77141
Prep Batch: 660-77020
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Manganese	1.00	1.04	104	75 - 125	
Sodium	10.0	10.4	104	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77020

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28397-1	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77020	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 0938		Final Weight/Volume: 50 mL
Date Prepared:	03/30/2009 1342		

MSD Lab Sample ID:	660-28397-1	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77020	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 0943		Final Weight/Volume: 50 mL
Date Prepared:	03/30/2009 1342		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Manganese	103	104	75 - 125	1	20		
Sodium	113	114	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77020

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28397-1	Units: mg/L	MSD Lab Sample ID: 660-28397-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/01/2009 0938		Date Analyzed: 04/01/2009 0943
Date Prepared:	03/30/2009 1342		Date Prepared: 03/30/2009 1342

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Manganese	0.0089	1.00	1.00	1.04	1.05
Sodium	17	10.0	10.0	28.5	28.6

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Method Blank - Batch: 660-77225

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77225/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 1738
Date Prepared: N/A

Analysis Batch: 660-77225
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77225

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77225/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 1804
Date Prepared: N/A

Analysis Batch: 660-77225
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	9.85	98	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77225

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28397-1
Client Matrix: Water
Dilution: 20
Date Analyzed: 04/03/2009 1132
Date Prepared: N/A

Analysis Batch: 660-77225
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

MSD Lab Sample ID: 660-28397-1
Client Matrix: Water
Dilution: 20
Date Analyzed: 04/03/2009 1158
Date Prepared: N/A

Analysis Batch: 660-77225
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	100	99	90 - 110	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77225

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28397-1
Client Matrix: Water
Dilution: 20
Date Analyzed: 04/03/2009 1132
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28397-1
Client Matrix: Water
Dilution: 20
Date Analyzed: 04/03/2009 1158
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	120	100	100	221	220

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Method Blank - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55246/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55246/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55246/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	94	92	80 - 120	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28397-1
Sdg Number: 660-28397

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55246/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55246/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	283	277

Duplicate - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28428-A-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1229
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	720	718	1	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12232

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 660-28397
Fax:

PROJECT REFERENCE: Tallevast - UIC	PROJECT NO.: 30038055.0020.0002	PROJECT LOCATION (STATE): FL	PAGE: 1 OF 1
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Kathy Thelman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 203.903.3157	DATE DUE
CLIENT NAME	CLIENT E-MAIL		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED — PRESERVATIVE: NONE 2540C	HNO3 6010B (Mn, Na)	NONE 300.0-28D (Sulfate)	REMARKS
3/24/09	1217	EW-101	G	X				1	1	1	
↓	1310	EW-106	↓	↓				1	1	1	
↓	1045	EW-107						1	1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1500
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS							3/25/09	1500

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/25/09	1500	YES ○ NO ○		28397	2.3°C CU-07	

TAL8240-660 (1207)

Page 20 of 23

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28397 Logged in TALS By: Amanda Hanison

Cooler Received on (date) 3/25/09 And Opened By (~~full name~~): Robyn & Pinky

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.3 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 3

   All containers pH < 2 ? Y/N/NA If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____

   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: 6

   All containers pH between 6 and 8? Y/N/NA If not please comment below:

9. Was chlorine present in any of the unpreserved containers? N/A

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28397-1
SDG Number: 660-28397

Login Number: 28397
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28397-1
SDG Number: 660-28397

Login Number: 28397
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/27/09 09:54 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

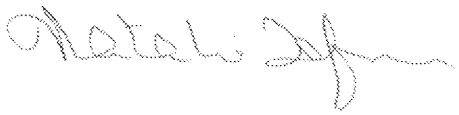
Job Number: 660-28428-1

SDG Number: 660-28428

Job Description: Tallevast - UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/14/2009 9:12 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/14/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

6010B
The batch matrix spike/matrix spike duplicate (MS/MSD) for batch 660-76874(660-28402) are outside of control limits for aluminum and sodium. The laboratory control sample (LCS) is within control limits. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28428-1	**EW-102**				
Sulfate		280	10	mg/L	300.0
Total Dissolved Solids		720	10	mg/L	SM 2540C
Total Recoverable					
Manganese		0.18	0.0040	mg/L	6010B
Sodium		39	0.50	mg/L	6010B
660-28428-2	**MW-76**				
Total Recoverable					
Aluminum		0.34	0.20	mg/L	6010B
Iron		7.5	0.20	mg/L	6010B
Manganese		0.0066	0.0040	mg/L	6010B
Sodium		25	0.50	mg/L	6010B
660-28428-3	**MW-76**				
Sulfate		63	2.5	mg/L	300.0
Total Dissolved Solids		140	5.0	mg/L	SM 2540C

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28428-1	EW-102	Water	03/25/2009 1039	03/26/2009 1350
660-28428-2	MW-76	Water	03/25/2009 1141	03/26/2009 1350
660-28428-3	MW-76	Water	03/26/2009 0924	03/26/2009 1350

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Client Sample ID: EW-102

Lab Sample ID: 660-28428-1
Client Matrix: Water

Date Sampled: 03/25/2009 1039
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1211
Date Prepared: 03/27/2009 0854

Analysis Batch: 660-77078
Prep Batch: 660-76874

Instrument ID: TJA ICP TRACE
Lab File ID: 9C31A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Manganese	0.18		0.0010	0.0040
Sodium	39		0.31	0.50

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Client Sample ID: MW-76

Lab Sample ID: 660-28428-2
Client Matrix: Water

Date Sampled: 03/25/2009 1141
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1216
Date Prepared: 03/27/2009 0854

Analysis Batch: 660-77078
Prep Batch: 660-76874

Instrument ID: TJA ICP TRACE
Lab File ID: 9C31A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.34		0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	7.5		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0066		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	25		0.31	0.50
Zinc	0.0050	U	0.0050	0.020

General Chemistry

Client Sample ID: EW-102

Lab Sample ID: 660-28428-1
Client Matrix: Water

Date Sampled: 03/25/2009 1039
Date Received: 03/26/2009 1350

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	720		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55246	Date Analyzed		03/31/2009 1229				
Sulfate	280		mg/L	4.0	10	20	300.0
Anly Batch: 660-77380	Date Analyzed		04/06/2009 1435				

Client Sample ID: MW-76

Lab Sample ID: 660-28428-3
Client Matrix: Water

Date Sampled: 03/26/2009 0924
Date Received: 03/26/2009 1350

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	140		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55246	Date Analyzed		03/31/2009 1229				
Sulfate	63		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-77380	Date Analyzed		04/06/2009 1501				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Method Blank - Batch: 660-76874

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76874/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0937
Date Prepared: 03/27/2009 0854

Analysis Batch: 660-77078
Prep Batch: 660-76874
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C31A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.050	U	0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0010	U	0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	0.31	U	0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Lab Control Spike - Batch: 660-76874

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76874/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0942
Date Prepared: 03/27/2009 0854

Analysis Batch: 660-77078
Prep Batch: 660-76874
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C31A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	1.00	1.01	101	75 - 125	
Arsenic	1.00	0.991	99	75 - 125	
Beryllium	1.00	1.03	103	75 - 125	
Cadmium	1.00	0.950	95	75 - 125	
Chromium	0.990	1.01	102	75 - 125	
Copper	1.00	0.997	100	75 - 125	
Iron	1.00	1.03	103	75 - 125	
Lead	1.00	1.02	102	75 - 125	
Manganese	1.00	1.02	102	75 - 125	
Nickel	1.00	1.02	102	75 - 125	
Sodium	10.0	10.0	100	75 - 125	
Zinc	1.00	1.01	101	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76874

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28402-E-1-B MS ^20 Analysis Batch: 660-77078 Instrument ID: TJA ICP TRACE
Client Matrix: Water Prep Batch: 660-76874 Lab File ID: 9C31A
Dilution: 20 Initial Weight/Volume: 50 mL
Date Analyzed: 03/31/2009 1000 Final Weight/Volume: 50 mL
Date Prepared: 03/27/2009 0854

MSD Lab Sample ID: 660-28402-E-1-C MSD Analysis Batch: 660-77078 Instrument ID: TJA ICP TRACE
Client Matrix: Water Prep Batch: 660-76874 Lab File ID: 9C31A
Dilution: 20 Initial Weight/Volume: 50 mL
Date Analyzed: 03/31/2009 1006 Final Weight/Volume: 50 mL
Date Prepared: 03/27/2009 0854

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	152	147	75 - 125	3	20	I J3	I J3
Arsenic	100	101	75 - 125	2	20		
Beryllium	106	103	75 - 125	3	20		
Cadmium	97	94	75 - 125	3	20		
Chromium	105	101	75 - 125	5	20		
Copper	102	98	75 - 125	3	20		
Iron	94	78	75 - 125	8	20	I	I
Lead	102	99	75 - 125	3	20		
Manganese	104	101	75 - 125	4	20		
Nickel	107	103	75 - 125	3	20		
Sodium	126	73	75 - 125	5	20	J3	J3
Zinc	118	100	75 - 125	14	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76874

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28402-E-1-B MS ^20 Units: mg/L
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/31/2009 1000
Date Prepared: 03/27/2009 0854

MSD Lab Sample ID: 660-28402-E-1-C MSI
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/31/2009 1006
Date Prepared: 03/27/2009 0854

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Aluminum	1.0	U	1.00	1.00	1.52	I J3	1.47	I J3
Arsenic	0.080	U	1.00	1.00	0.999		1.01	
Beryllium	0.010	U	1.00	1.00	1.06		1.03	
Cadmium	0.020	U	1.00	1.00	0.968		0.935	
Chromium	0.040	U	0.990	0.990	1.04		0.998	
Copper	0.074	I	1.00	1.00	1.09		1.06	
Iron	1.1	I	1.00	1.00	2.09	I	1.93	I
Lead	0.040	U	1.00	1.00	1.02		0.991	
Manganese	0.033	I	1.00	1.00	1.08		1.04	
Nickel	0.040	U	1.00	1.00	1.07		1.03	
Sodium	100		10.0	10.0	115	J3	110	J3
Zinc	0.20	I	1.00	1.00	1.38		1.20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Method Blank - Batch: 660-77380

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77380/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 1318
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77380

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77380/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 1344
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	9.73	97	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28460-C-1 MS ^20
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1050
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

MSD Lab Sample ID: 660-28460-C-1 MSD ^20
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1024
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	110	98	90 - 110	4	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28460-C-1 MS ^20
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1050
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28460-C-1 MSD
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1024
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	350	200	200	568	546

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Method Blank - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55246/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55246/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55246/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	94	92	80 - 120	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28428-1
Sdg Number: 660-28428

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55246/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55246/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1138
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	283	277

Duplicate - Batch: 640-55246

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28428-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1229
Date Prepared: N/A

Analysis Batch: 640-55246
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	720	718	1	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12238

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28428
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - UIC	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 2540C	6010B (Mn/Na)	6010B	300.0-28D (Bromide & Sulfate)	300.0-28D (Sulfate)	REMARKS
								PRESERVATIVE					
3/25/09	1039	EW-102	G	X				1	1	—	—	1	
3/25/09	1141	MW-76	↓	↓				—	—	1	—	—	
3/26/09	0924	MW-76	↓	↓				1	—	—	1	—	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235	Amanda Harrison	3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350	YES ○ NO ○		6060-28428	2.5°C	CW-07

TAL8240-660 (1207)

Page 20 of 23

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28428 Logged in TALS By : Amanda Harrison

Cooler Received on (date) 3-26-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.5°C Cw-07 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH.< 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 2

All containers pH < 2 ? YES If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: 4

All containers pH between 6 and 8? YES If not please comment below:

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28428-1
SDG Number: 660-28428

Login Number: 28428
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28428-1
SDG Number: 660-28428

Login Number: 28428
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/30/09 10:09 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

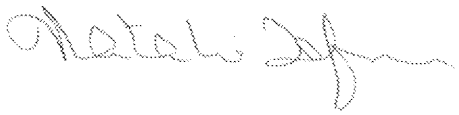
Job Number: 660-28460-1

SDG Number: 660-28460

Job Description: Tallevast - UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/14/2009 2:19 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/14/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28460-1	**MW-70**					
Bromide		0.21		0.050	mg/L	300.0
Sulfate		350		10	mg/L	300.0
Total Dissolved Solids		650		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.28		0.20	mg/L	6010B
Arsenic		0.0045	I	0.010	mg/L	6010B
Iron		34		0.20	mg/L	6010B
Manganese		0.026		0.0040	mg/L	6010B
Sodium		38		0.50	mg/L	6010B
660-28460-2	**DUP-05**					
Bromide		0.20		0.050	mg/L	300.0
Sulfate		360		10	mg/L	300.0
Total Dissolved Solids		660		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.27		0.20	mg/L	6010B
Iron		35		0.20	mg/L	6010B
Manganese		0.027		0.0040	mg/L	6010B
Sodium		39		0.50	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28460-1	MW-70	Water	03/26/2009 1658	03/27/2009 1725
660-28460-2	DUP-05	Water	03/26/2009 0000	03/27/2009 1725

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Client Sample ID: MW-70

Lab Sample ID: 660-28460-1
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1400
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.28		0.050	0.20
Arsenic	0.0045	I	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	34		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.026		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	38		0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Client Sample ID: DUP-05

Lab Sample ID: 660-28460-2
Client Matrix: Water

Date Sampled: 03/26/2009 0000
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1406
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.27		0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	35		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.027		0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	39		0.31	0.50
Zinc	0.0050	U	0.0050	0.020

General Chemistry

Client Sample ID: MW-70

Lab Sample ID: 660-28460-1
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1725

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	650		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55313	Date Analyzed		04/02/2009 1159				
Bromide	0.21		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77380	Date Analyzed		04/06/2009 1553				
Sulfate	350		mg/L	4.0	10	20	300.0
Anly Batch: 660-77380	Date Analyzed		04/06/2009 1619				

Client Sample ID: DUP-05

Lab Sample ID: 660-28460-2
Client Matrix: Water

Date Sampled: 03/26/2009 0000
Date Received: 03/27/2009 1725

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	660		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55313	Date Analyzed		04/02/2009 1159				
Bromide	0.20		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77380	Date Analyzed		04/07/2009 1116				
Sulfate	360		mg/L	4.0	10	20	300.0
Anly Batch: 660-77380	Date Analyzed		04/07/2009 1142				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Method Blank - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77051/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1237
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.050	U	0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0010	U	0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	0.31	U	0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Lab Control Spike - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77051/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1243
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	1.00	0.978	98	75 - 125	
Arsenic	1.00	0.976	98	75 - 125	
Beryllium	1.00	1.02	102	75 - 125	
Cadmium	1.00	0.948	95	75 - 125	
Chromium	0.990	1.01	102	75 - 125	
Copper	1.00	0.966	97	75 - 125	
Iron	1.00	1.02	102	75 - 125	
Lead	1.00	1.02	102	75 - 125	
Manganese	1.00	1.00	100	75 - 125	
Nickel	1.00	1.02	102	75 - 125	
Sodium	10.0	10.1	101	75 - 125	
Zinc	1.00	1.02	102	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28430-A-7-B MS	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77051	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 1300		Final Weight/Volume: 50 mL
Date Prepared:	03/31/2009 0706		

MSD Lab Sample ID:	660-28430-A-7-C MSD	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77051	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 1305		Final Weight/Volume: 50 mL
Date Prepared:	03/31/2009 0706		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	104	105	75 - 125	1	20		
Arsenic	101	100	75 - 125	1	20		
Beryllium	106	105	75 - 125	1	20		
Cadmium	96	95	75 - 125	1	20		
Chromium	104	103	75 - 125	1	20		
Copper	100	99	75 - 125	0	20		
Iron	106	107	75 - 125	1	20		
Lead	103	102	75 - 125	2	20		
Manganese	103	102	75 - 125	1	20		
Nickel	103	102	75 - 125	1	20		
Sodium	118	111	75 - 125	2	20		
Zinc	102	101	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28430-A-7-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1300
Date Prepared: 03/31/2009 0706

Units: mg/L

MSD Lab Sample ID: 660-28430-A-7-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1305
Date Prepared: 03/31/2009 0706

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Aluminum	0.050	U	1.00	1.00	1.04	1.05
Arsenic	0.0040	U	1.00	1.00	1.01	0.998
Beryllium	0.00050	U	1.00	1.00	1.06	1.05
Cadmium	0.0010	U	1.00	1.00	0.960	0.951
Chromium	0.0020	U	0.990	0.990	1.03	1.02
Copper	0.0029	U	1.00	1.00	0.999	0.994
Iron	0.050	U	1.00	1.00	1.06	1.07
Lead	0.0020	U	1.00	1.00	1.03	1.02
Manganese	0.090		1.00	1.00	1.12	1.11
Nickel	0.0020	U	1.00	1.00	1.03	1.02
Sodium	27		10.0	10.0	38.6	37.9
Zinc	0.0066	I	1.00	1.00	1.03	1.02

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Method Blank - Batch: 660-77380

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77380/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 1318
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Bromide	0.027	U	0.027	0.050
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77380

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77380/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 1344
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	1.00	0.946	95	90 - 110	
Sulfate	10.0	9.73	97	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28460-1	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	04/06/2009 1645			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28460-1	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	04/07/2009 0959			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Bromide	96	100	90 - 110	4	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28460-1	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	
Date Analyzed:	04/07/2009 1050			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28460-1	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	
Date Analyzed:	04/07/2009 1024			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	110	98	90 - 110	26	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28460-1
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 04/06/2009 1645
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28460-1
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 04/07/2009 0959
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	0.21	1.00	1.00	1.17	1.22

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28460-1
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1050
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28460-1
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1024
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	350	200	200	568	546

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Method Blank - Batch: 640-55313

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55313/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0952
Date Prepared: N/A

Analysis Batch: 640-55313
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55313

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55313/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0952
Date Prepared: N/A

Analysis Batch: 640-55313
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55313/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0952
Date Prepared: N/A

Analysis Batch: 640-55313
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	95	96	80 - 120	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28460-1
Sdg Number: 660-28460

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55313

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55313/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0952
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55313/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0952
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	284	289

Duplicate - Batch: 640-55313

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28420-B-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0952
Date Prepared: N/A

Analysis Batch: 640-55313
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	950	963	2	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12245

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28460
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - UIC	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (4)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: NONE 2540C	REQUIRED ANALYSIS: HNO3 6010B	REQUIRED ANALYSIS: NONE 300.0 - 28D (Bromide & Sulfate)	REMARKS
3/26/09	1658	MW-70	G	X				1	1	1	
3/26/09	—	DUP-05	G	X				1	1	1	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Dina Kemer	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS			Carol McNulty	3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/27/09	1725	YES ○ NO ○		6060-28460	1.7°C CU07	

R625-EDC-001214-0

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28460 Logged in TALS By: Amanda Haines

Cooler Received on (date) 3/27/09 And Opened By (full name): Amanda Haines

1. Shipper (circle one) FEDEX UPS DHL (WALK-IN) COURIER OTHER: _____

2. Tracking #_____

3. Temperature of rep. sample or temp blank when opened: 1.7 Degrees Celsius CU 07

4. Number of H2SO4 (sulfuric acid) preserved containers:_____

   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers:_____

   All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 2

   All containers pH < 2 ? Yes If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____

   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: 4

   All containers pH between 6 and 8? Yes If not please comment below:

9. Was chlorine present in any of the unpreserved containers? NO

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28460-1
SDG Number: 660-28460

Login Number: 28460
List Source: TestAmerica Tampa
Creator: McNulty, Carol
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28460-1
SDG Number: 660-28460

Login Number: 28460
Creator: Aaron, Terron
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/31/09 10:07 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

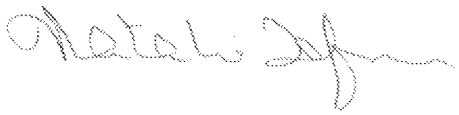
Job Number: 660-28504-1

SDG Number: 660-28504

Job Description: Tallevast UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/15/2009 8:52 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/15/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28504-1	**MW-38**					
Sulfate		160		5.0	mg/L	300.0
Total Dissolved Solids		310		5.0	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.35		0.20	mg/L	6010B
Arsenic		0.0047	I	0.010	mg/L	6010B
Iron		19		0.20	mg/L	6010B
Manganese		0.010		0.0040	mg/L	6010B
Nickel		0.0089		0.0080	mg/L	6010B
Sodium		25		0.50	mg/L	6010B
660-28504-2	**MW-39**					
Bromide		13		1.0	mg/L	300.0
Sulfate		300		10	mg/L	300.0
Total Dissolved Solids		830		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.092	I	0.20	mg/L	6010B
Iron		2.8		0.20	mg/L	6010B
Manganese		0.11		0.0040	mg/L	6010B
Nickel		0.0023	I	0.0080	mg/L	6010B
Sodium		55		0.50	mg/L	6010B
Zinc		0.019	I	0.020	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28504-1	MW-38	Water	03/30/2009 1115	03/31/2009 1430
660-28504-2	MW-39	Water	03/30/2009 1145	03/31/2009 1430

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Client Sample ID: MW-38

Lab Sample ID: 660-28504-1
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1308
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.35		0.050	0.20
Arsenic	0.0047	I	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	19		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.010		0.0010	0.0040
Nickel	0.0089		0.0020	0.0080
Sodium	25		0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Client Sample ID: MW-39

Lab Sample ID: 660-28504-2
Client Matrix: Water

Date Sampled: 03/30/2009 1145
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1314
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.092	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	2.8		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.11		0.0010	0.0040
Nickel	0.0023	I	0.0020	0.0080
Sodium	55		0.31	0.50
Zinc	0.019	I	0.0050	0.020

General Chemistry

Client Sample ID: MW-38

Lab Sample ID: 660-28504-1
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	310		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55404	Date Analyzed			04/06/2009 1240			
Bromide	0.027	U	mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77380	Date Analyzed			04/07/2009 1207			
Sulfate	160		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77380	Date Analyzed			04/07/2009 1233			

Client Sample ID: MW-39

Lab Sample ID: 660-28504-2
Client Matrix: Water

Date Sampled: 03/30/2009 1145
Date Received: 03/31/2009 1430

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	830		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55404	Date Analyzed			04/06/2009 1240			
Bromide	13		mg/L	0.54	1.0	20	300.0
Anly Batch: 660-77380	Date Analyzed			04/07/2009 1325			
Sulfate	300		mg/L	4.0	10	20	300.0
Anly Batch: 660-77380	Date Analyzed			04/07/2009 1325			

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Method Blank - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77180/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1025
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.050	U	0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0010	U	0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	0.31	U	0.31	0.50
Zinc	0.0050	U	0.0050	0.020

Lab Control Spike - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77180/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1031
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	1.00	1.05	105	75 - 125	
Arsenic	1.00	1.02	102	75 - 125	
Beryllium	1.00	1.05	105	75 - 125	
Cadmium	1.00	0.991	99	75 - 125	
Chromium	0.990	1.07	108	75 - 125	
Copper	1.00	1.04	104	75 - 125	
Iron	1.00	1.08	108	75 - 125	
Lead	1.00	1.04	104	75 - 125	
Manganese	1.00	1.07	107	75 - 125	
Nickel	1.00	1.08	108	75 - 125	
Sodium	10.0	10.5	105	75 - 125	
Zinc	1.00	1.08	108	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28506-A-9-B MS	Analysis Batch: 660-77252	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77180	Lab File ID: 9D03A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/03/2009 1048		Final Weight/Volume: 50 mL
Date Prepared:	04/02/2009 1046		

MSD Lab Sample ID:	660-28506-A-9-C MSD	Analysis Batch: 660-77252	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77180	Lab File ID: 9D03A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/03/2009 1054		Final Weight/Volume: 50 mL
Date Prepared:	04/02/2009 1046		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	106	104	75 - 125	2	20		
Arsenic	101	100	75 - 125	1	20		
Beryllium	104	104	75 - 125	1	20		
Cadmium	96	96	75 - 125	1	20		
Chromium	106	105	75 - 125	1	20		
Copper	104	102	75 - 125	1	20		
Iron	107	106	75 - 125	1	20		
Lead	103	101	75 - 125	1	20		
Manganese	106	104	75 - 125	1	20		
Nickel	105	104	75 - 125	1	20		
Sodium	115	114	75 - 125	0	20		
Zinc	104	103	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28506-A-9-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1048
Date Prepared: 04/02/2009 1046

Units: mg/L

MSD Lab Sample ID: 660-28506-A-9-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1054
Date Prepared: 04/02/2009 1046

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Aluminum	0.050	U	1.00	1.00	1.06	1.04
Arsenic	0.0040	U	1.00	1.00	1.01	1.00
Beryllium	0.00050	U	1.00	1.00	1.04	1.04
Cadmium	0.0010	U	1.00	1.00	0.964	0.955
Chromium	0.0020	U	0.990	0.990	1.05	1.04
Copper	0.0029	U	1.00	1.00	1.04	1.02
Iron	0.27		1.00	1.00	1.34	1.33
Lead	0.0020	U	1.00	1.00	1.03	1.01
Manganese	0.021		1.00	1.00	1.08	1.07
Nickel	0.0020	U	1.00	1.00	1.05	1.04
Sodium	26		10.0	10.0	37.3	37.2
Zinc	0.0050	U	1.00	1.00	1.04	1.03

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Method Blank - Batch: 660-77380

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77380/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 1318
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Bromide	0.027	U	0.027	0.050
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77380

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77380/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 1344
Date Prepared: N/A

Analysis Batch: 660-77380
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	1.00	0.946	95	90 - 110	
Sulfate	10.0	9.73	97	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28460-C-1 MS	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	04/06/2009 1645			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28460-C-1 MSD	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	04/07/2009 0959			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Bromide	96	100	90 - 110	4	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28460-C-1 MS ^20	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	
Date Analyzed:	04/07/2009 1050			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28460-C-1 MSD ^20	Analysis Batch:	660-77380	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	
Date Analyzed:	04/07/2009 1024			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	110	98	90 - 110	26	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28460-C-1 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 04/06/2009 1645
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28460-C-1 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 04/07/2009 0959
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	0.21	1.00	1.00	1.17	1.22

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77380

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28460-C-1 MS ^20
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1050
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28460-C-1 MSD
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/07/2009 1024
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	350	200	200	568	546

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Method Blank - Batch: 640-55404

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55404/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0909
Date Prepared: N/A

Analysis Batch: 640-55404
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55404

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55404/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0909
Date Prepared: N/A

Analysis Batch: 640-55404
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55404/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0909
Date Prepared: N/A

Analysis Batch: 640-55404
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	95	97	80 - 120	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28504-1
Sdg Number: 660-28504

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55404

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55404/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0909
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55404/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0909
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	286	291

Duplicate - Batch: 640-55404

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28486-C-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0909
Date Prepared: N/A

Analysis Batch: 640-55404
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	350	346	2	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12213

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - UIC	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	KATHY.Thalman@arcadis-us.com	
CLIENT ADDRESS		
3330 Buschwood Park Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) *INDICATE*; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...))

REQUIRED ANALYSIS: 2540C; 6010B; 300.0 - 280 (Bromide + Sulfate); none; HNO3 None

PRESERVATIVE

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☆

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30/09	1115	~~MW-38~~ MD MW-38	G	X				1 1 1	
↓	1145	MW-39	↓	X				1 1 1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09			3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1430			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430	YES ○ NO ○		660-28504	2.3 °C	cw-07

TAL8240-660 (1207)

Page 21 of 24

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 28504 Logged in TALS By : Carol McMullen

Cooler Received on (date) 3/31/09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius*

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 2

   All containers pH < 2 ? Yes If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____

   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: 6

   All containers pH between 6 and 8? Yes If not please comment below:

9. Was chlorine present in any of the unpreserved containers? No

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28504-1
SDG Number: 660-28504

Login Number: 28504
List Source: TestAmerica Tampa
Creator: Volz, Charles
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.3 degrees C CU-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28504-1
SDG Number: 660-28504

Login Number: 28504
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 04/02/09 10:01 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

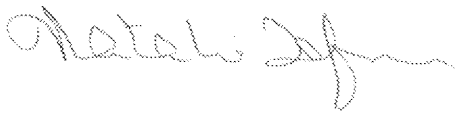
Job Number: 660-28592-1

SDG Number: 660-28592

Job Description: Tallevast UIC

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/16/2009 2:21 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/16/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

6010B
The method blank for preparation batch 660-77455 contained As and Zn at the method detection limit (MDL) but well below the routine reporting limit (RL). Re-extraction and/or re-analysis of samples were not performed. The data are flagged with V qualifiers.

The matrix spike duplicate (MSD) recovery for batch 660-77455 was outside of control limits for Fe. The associated laboratory control sample (LCS) and matrix spike (MS) met acceptance criteria. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28592-1	**MW-4**					
Bromide		0.13		0.050	mg/L	300.0
Sulfate		260		10	mg/L	300.0
Total Dissolved Solids		520		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.42		0.20	mg/L	6010B
Arsenic		0.0044	I V	0.010	mg/L	6010B
Iron		12		0.20	mg/L	6010B
Manganese		0.017		0.0040	mg/L	6010B
Nickel		0.0028	I	0.0080	mg/L	6010B
Sodium		35		0.50	mg/L	6010B
Zinc		0.0088	I V	0.020	mg/L	6010B
660-28592-2	**MW-3**					
Sulfate		12		0.50	mg/L	300.0
Total Dissolved Solids		120		5.0	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.10	I	0.20	mg/L	6010B
Arsenic		0.0063	I V	0.010	mg/L	6010B
Iron		0.068	I	0.20	mg/L	6010B
Manganese		0.0014	I	0.0040	mg/L	6010B
Nickel		0.0030	I	0.0080	mg/L	6010B
Sodium		1.8		0.50	mg/L	6010B
Zinc		0.0092	I V	0.020	mg/L	6010B
660-28592-3	**CO-B1D**					
Bromide		0.15		0.050	mg/L	300.0
Sulfate		180		5.0	mg/L	300.0
Total Dissolved Solids		390		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.25		0.20	mg/L	6010B
Arsenic		0.018	V	0.010	mg/L	6010B
Cadmium		0.0010	I	0.0040	mg/L	6010B
Copper		0.0035	I	0.010	mg/L	6010B
Iron		26		0.20	mg/L	6010B
Manganese		0.035		0.0040	mg/L	6010B
Nickel		0.011		0.0080	mg/L	6010B
Sodium		43		0.50	mg/L	6010B
Zinc		0.070	V	0.020	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28592-4	**CO-B4D**					
Bromide		0.19		0.050	mg/L	300.0
Sulfate		340		10	mg/L	300.0
Total Dissolved Solids		650		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.29		0.20	mg/L	6010B
Arsenic		0.0090	I V	0.010	mg/L	6010B
Cadmium		0.0015	I	0.0040	mg/L	6010B
Chromium		0.0023	I	0.010	mg/L	6010B
Iron		52		0.20	mg/L	6010B
Manganese		0.049		0.0040	mg/L	6010B
Nickel		0.0040	I	0.0080	mg/L	6010B
Sodium		46		0.50	mg/L	6010B
Zinc		0.027	V	0.020	mg/L	6010B
660-28592-5	**CO-A1D**					
Bromide		0.15		0.050	mg/L	300.0
Sulfate		260		10	mg/L	300.0
Total Dissolved Solids		500		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.91		0.20	mg/L	6010B
Arsenic		0.052	V	0.010	mg/L	6010B
Cadmium		0.0012	I	0.0040	mg/L	6010B
Chromium		0.0028	I	0.010	mg/L	6010B
Iron		24		0.20	mg/L	6010B
Manganese		0.059		0.0040	mg/L	6010B
Nickel		0.036		0.0080	mg/L	6010B
Sodium		49		0.50	mg/L	6010B
Zinc		0.055	V	0.020	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28592-6	**CO-C1D**					
Bromide		0.15		0.050	mg/L	300.0
Sulfate		210		10	mg/L	300.0
Total Dissolved Solids		410		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.29		0.20	mg/L	6010B
Arsenic		0.0089	I V	0.010	mg/L	6010B
Chromium		0.0023	I	0.010	mg/L	6010B
Iron		34		0.20	mg/L	6010B
Manganese		0.021		0.0040	mg/L	6010B
Nickel		0.0069	I	0.0080	mg/L	6010B
Sodium		34		0.50	mg/L	6010B
Zinc		0.046	V	0.020	mg/L	6010B
660-28592-7	**CO-D1D**					
Bromide		0.13		0.050	mg/L	300.0
Sulfate		250		10	mg/L	300.0
Total Dissolved Solids		480		10	mg/L	SM 2540C
Total Recoverable						
Aluminum		0.17	I	0.20	mg/L	6010B
Arsenic		0.0087	I V	0.010	mg/L	6010B
Cadmium		0.0010	I	0.0040	mg/L	6010B
Iron		47		0.20	mg/L	6010B
Manganese		0.035		0.0040	mg/L	6010B
Nickel		0.0040	I	0.0080	mg/L	6010B
Sodium		36		0.50	mg/L	6010B
Zinc		0.012	I V	0.020	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	

Lab References:

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF
MCAWW 300.0	Petterson, Alyssa	AP
SM SM 2540C	Wilkerson, Shelette	SW

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28592-1	MW-4	Water	04/02/2009 1020	04/02/2009 1845
660-28592-2	MW-3	Water	04/02/2009 1215	04/02/2009 1845
660-28592-3	CO-B1D	Water	04/02/2009 1420	04/02/2009 1845
660-28592-4	CO-B4D	Water	04/02/2009 1515	04/02/2009 1845
660-28592-5	CO-A1D	Water	04/02/2009 1520	04/02/2009 1845
660-28592-6	CO-C1D	Water	04/02/2009 1545	04/02/2009 1845
660-28592-7	CO-D1D	Water	04/02/2009 1545	04/02/2009 1845

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Client Sample ID: MW-4

Lab Sample ID: 660-28592-1
Client Matrix: Water

Date Sampled: 04/02/2009 1020
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/13/2009 0946
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.42		0.050	0.20
Arsenic	0.0044	I V	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	12		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.017		0.0010	0.0040
Nickel	0.0028	I	0.0020	0.0080
Sodium	35		0.31	0.50
Zinc	0.0088	I V	0.0050	0.020

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Client Sample ID: MW-3

Lab Sample ID: 660-28592-2
Client Matrix: Water

Date Sampled: 04/02/2009 1215
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/13/2009 1009
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.10	I	0.050	0.20
Arsenic	0.0063	I V	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.068	I	0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0014	I	0.0010	0.0040
Nickel	0.0030	I	0.0020	0.0080
Sodium	1.8		0.31	0.50
Zinc	0.0092	I V	0.0050	0.020

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Client Sample ID: CO-B1D

Lab Sample ID: 660-28592-3
Client Matrix: Water

Date Sampled: 04/02/2009 1420
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/13/2009 1015
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.25		0.050	0.20
Arsenic	0.018	V	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	I	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0035	I	0.0029	0.010
Iron	26		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.035		0.0010	0.0040
Nickel	0.011		0.0020	0.0080
Sodium	43		0.31	0.50
Zinc	0.070	V	0.0050	0.020

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Client Sample ID: CO-B4D

Lab Sample ID: 660-28592-4
Client Matrix: Water

Date Sampled: 04/02/2009 1515
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/13/2009 1021
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.29		0.050	0.20
Arsenic	0.0090	I V	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0015	I	0.0010	0.0040
Chromium	0.0023	I	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	52		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.049		0.0010	0.0040
Nickel	0.0040	I	0.0020	0.0080
Sodium	46		0.31	0.50
Zinc	0.027	V	0.0050	0.020

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Client Sample ID: CO-A1D

Lab Sample ID: 660-28592-5
Client Matrix: Water

Date Sampled: 04/02/2009 1520
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/13/2009 1038
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.91		0.050	0.20
Arsenic	0.052	V	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0012	I	0.0010	0.0040
Chromium	0.0028	I	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	24		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.059		0.0010	0.0040
Nickel	0.036		0.0020	0.0080
Sodium	49		0.31	0.50
Zinc	0.055	V	0.0050	0.020

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Client Sample ID: CO-C1D

Lab Sample ID: 660-28592-6
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/13/2009 1044
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.29		0.050	0.20
Arsenic	0.0089	I V	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0023	I	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	34		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.021		0.0010	0.0040
Nickel	0.0069	I	0.0020	0.0080
Sodium	34		0.31	0.50
Zinc	0.046	V	0.0050	0.020

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Client Sample ID: CO-D1D

Lab Sample ID: 660-28592-7
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/13/2009 1050
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.17	I	0.050	0.20
Arsenic	0.0087	I V	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	I	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	47		0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.035		0.0010	0.0040
Nickel	0.0040	I	0.0020	0.0080
Sodium	36		0.31	0.50
Zinc	0.012	I V	0.0050	0.020

General Chemistry

Client Sample ID: MW-4

Lab Sample ID: 660-28592-1
Client Matrix: Water

Date Sampled: 04/02/2009 1020
Date Received: 04/02/2009 1845

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	520		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55467	Date Analyzed		04/07/2009 1405				
Bromide	0.13		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1242				
Sulfate	260		mg/L	4.0	10	20	300.0
Anly Batch: 660-77511	Date Analyzed		04/10/2009 1609				

Client Sample ID: MW-3

Lab Sample ID: 660-28592-2
Client Matrix: Water

Date Sampled: 04/02/2009 1215
Date Received: 04/02/2009 1845

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	120		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55467	Date Analyzed		04/07/2009 1405				
Bromide	0.027	U	mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1359				
Sulfate	12		mg/L	0.20	0.50	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1359				

Client Sample ID: CO-B1D

Lab Sample ID: 660-28592-3
Client Matrix: Water

Date Sampled: 04/02/2009 1420
Date Received: 04/02/2009 1845

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	390		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55467	Date Analyzed		04/07/2009 1405				
Bromide	0.15		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1516				
Sulfate	180		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77511	Date Analyzed		04/09/2009 2059				

General Chemistry

Client Sample ID: CO-B4D

Lab Sample ID: 660-28592-4
Client Matrix: Water

Date Sampled: 04/02/2009 1515
Date Received: 04/02/2009 1845

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	650		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55467	Date Analyzed		04/07/2009 1405				
Bromide	0.19		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1542				
Sulfate	340		mg/L	4.0	10	20	300.0
Anly Batch: 660-77511	Date Analyzed		04/09/2009 2125				

Client Sample ID: CO-A1D

Lab Sample ID: 660-28592-5
Client Matrix: Water

Date Sampled: 04/02/2009 1520
Date Received: 04/02/2009 1845

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	500		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55467	Date Analyzed		04/07/2009 1405				
Bromide	0.15		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1608				
Sulfate	260		mg/L	4.0	10	20	300.0
Anly Batch: 660-77511	Date Analyzed		04/09/2009 2151				

Client Sample ID: CO-C1D

Lab Sample ID: 660-28592-6
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	410		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55467	Date Analyzed		04/07/2009 1405				
Bromide	0.15		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1634				
Sulfate	210		mg/L	4.0	10	20	300.0
Anly Batch: 660-77511	Date Analyzed		04/09/2009 2217				

General Chemistry

Client Sample ID: CO-D1D

Lab Sample ID: 660-28592-7
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Total Dissolved Solids	480		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55467	Date Analyzed		04/07/2009 1405				
Bromide	0.13		mg/L	0.027	0.050	1.0	300.0
Anly Batch: 660-77511	Date Analyzed		04/08/2009 1659				
Sulfate	250		mg/L	4.0	10	20	300.0
Anly Batch: 660-77511	Date Analyzed		04/09/2009 2243				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Method Blank - Batch: 660-77455

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77455/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/13/2009 0929
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0050	I	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.050	U	0.050	0.20
Lead	0.0020	U	0.0020	0.010
Manganese	0.0010	U	0.0010	0.0040
Nickel	0.0020	U	0.0020	0.0080
Sodium	0.31	U	0.31	0.50
Zinc	0.0056	I	0.0050	0.020

Lab Control Spike - Batch: 660-77455

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77455/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/13/2009 0935
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	1.00	0.987	99	75 - 125	
Arsenic	1.00	0.974	97	75 - 125	
Beryllium	1.00	0.988	99	75 - 125	
Cadmium	1.00	0.991	99	75 - 125	
Chromium	0.990	0.957	97	75 - 125	
Copper	1.00	1.01	101	75 - 125	
Iron	1.00	1.01	101	75 - 125	
Lead	1.00	0.992	99	75 - 125	
Manganese	1.00	0.994	99	75 - 125	
Nickel	1.00	0.986	99	75 - 125	
Sodium	10.0	10.2	102	75 - 125	
Zinc	1.00	0.974	97	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77455

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/13/2009 0952
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/13/2009 0958
Date Prepared: 04/08/2009 0949

Analysis Batch: 660-77668
Prep Batch: 660-77455

Instrument ID: TJA ICP TRACE
Lab File ID: 9D13A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aluminum	106	102	75 - 125	3	20		
Arsenic	101	100	75 - 125	1	20		
Beryllium	101	100	75 - 125	1	20		
Cadmium	100	99	75 - 125	1	20		
Chromium	98	97	75 - 125	1	20		
Copper	102	102	75 - 125	1	20		
Iron	81	74	75 - 125	1	20		J3
Lead	100	100	75 - 125	0	20		
Manganese	102	101	75 - 125	1	20		
Nickel	99	98	75 - 125	1	20		
Sodium	104	102	75 - 125	0	20		
Zinc	97	96	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77455

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/13/2009 0952
Date Prepared: 04/08/2009 0949

Units: mg/L

MSD Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/13/2009 0958
Date Prepared: 04/08/2009 0949

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Aluminum	0.42		1.00	1.00	1.48	1.44	
Arsenic	0.0044	I	1.00	1.00	1.01	1.00	
Beryllium	0.00050	U	1.00	1.00	1.01	1.00	
Cadmium	0.0010	U	1.00	1.00	1.00	0.991	
Chromium	0.0020	U	0.990	0.990	0.971	0.964	
Copper	0.0029	U	1.00	1.00	1.02	1.02	
Iron	12		1.00	1.00	12.6	12.5	J3
Lead	0.0020	U	1.00	1.00	1.00	0.999	
Manganese	0.017		1.00	1.00	1.03	1.03	
Nickel	0.0028	I	1.00	1.00	0.997	0.987	
Sodium	35		10.0	10.0	45.5	45.4	
Zinc	0.0088	I	1.00	1.00	0.979	0.968	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Method Blank - Batch: 660-77511

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77511/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 1058
Date Prepared: N/A

Analysis Batch: 660-77511
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Bromide	0.027	U	0.027	0.050
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77511

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77511/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 1124
Date Prepared: N/A

Analysis Batch: 660-77511
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	1.00	0.969	97	90 - 110	
Sulfate	10.0	10.7	107	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77511

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28592-1	Analysis Batch:	660-77511	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	04/08/2009 1307			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28592-1	Analysis Batch:	660-77511	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	04/08/2009 1333			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Bromide	96	98	90 - 110	2	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77511

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28592-1	Analysis Batch:	660-77511	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	
Date Analyzed:	04/10/2009 1702			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28592-1	Analysis Batch:	660-77511	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	40			Initial Weight/Volume:	
Date Analyzed:	04/10/2009 1753			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	92	93	90 - 110	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77511

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 04/08/2009 1307
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 04/08/2009 1333
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromide	0.27	1.00	1.00	1.09	1.11

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77511

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/10/2009 1702
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28592-1
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/10/2009 1753
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate	260	200	200	440	442

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Method Blank - Batch: 640-55467

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55467/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1405
Date Prepared: N/A

Analysis Batch: 640-55467
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55467

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55467/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1405
Date Prepared: N/A

Analysis Batch: 640-55467
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55467/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1405
Date Prepared: N/A

Analysis Batch: 640-55467
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	90	94	80 - 120	4	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28592-1
Sdg Number: 660-28592

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55467

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55467/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1405
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55467/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1405
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	271	281

Duplicate - Batch: 640-55467

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28566-B-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1405
Date Prepared: N/A

Analysis Batch: 640-55467
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	920	916	1	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12249

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

UIC

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLEVAST - UIC	B0038055.0026.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 2540C - TDS	REQUIRED ANALYSIS: 6010B	REQUIRED ANALYSIS: 300.28D Bromide & Sulfate	NUMBER OF CONTAINERS SUBMITTED: none	NUMBER OF CONTAINERS SUBMITTED: HNO3	NUMBER OF CONTAINERS SUBMITTED: None	REMARKS
4/2/09	1020	MW-4	G	X				1	1	1				
	1215	MW-3						1	1	1				
	1420	CO-B1D						1	1	1				
	1515	CO-B4D						1	1	1				
	1520	CO-A1D						1	1	1				
	1545	CO-C1D						1	1	1				
↓	1545	CO-D1D	↓	↓				1	1	1				

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	9-2-09	1845	YES ○ NO ○		28592	2.4 C cw-07	

TAL8240-660 (1207)

Page 30 of 33

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 28592 Logged in TALS By : Carol McNulty

Cooler Received on (date) 4-2-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL (WALK-IN) COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.4 °C CU-07 *Degrees Celsius*

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 7

All containers pH < 2 ? YES If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 14

All containers pH between 6 and 8? YES If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28592-1
SDG Number: 660-28592

Login Number: 28592
List Source: TestAmerica Tampa
Creator: McNulty, Carol
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.4 degrees C CU-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28592-1
SDG Number: 660-28592

Login Number: 28592
Creator: Aaron, Terron
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 04/04/09 01:35 PM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas Parameters
Date Sampled: Mar 18, 2009
Mar 26, 2009; Invoice: 91314

Report Summary

Date Received: Mar 21, 2009 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
91314GW1	MW-42A	EPA1666	CLS	Main Lab	Ground Water
91314GW2	MW-128A	EPA1666	CLS	Main Lab	Ground Water
91314GW3	MW-36A	EPA1666	CLS	Main Lab	Ground Water
91314GW4	MW-127A	EPA1666	CLS	Main Lab	Ground Water
91314GW5	MW-37A	EPA1666	CLS	Main Lab	Ground Water
91314GW6	MW-40A	EPA1666	CLS	Main Lab	Ground Water
91314GW7	EW-105A	EPA1666	CLS	Main Lab	Ground Water
91314GW8	MW-254A	EPA1666	CLS	Main Lab	Ground Water
91314GW9	EW-103A	EPA1666	CLS	Main Lab	Ground Water
91314GW10	EW-108A	EPA1666	CLS	Main Lab	Ground Water
91314GW11	EW-109A	EPA1666	CLS	Main Lab	Ground Water
91314GW12	EW-110A	EPA1666	CLS	Main Lab	Ground Water
91314GW13	Trip Blank	EPA1666	CLS	Main Lab	Ground Water

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

Jefferson S. Flowers, Ph.D.
President/Technical Director

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas Parameters
Date Sampled: Mar 18, 2009
Mar 26, 2009; Invoice: 91314

Analysis Report

Lab #: 91314GW1 **Sampled:** 03/18/09 07:00 PM **Desc:** MW-42A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW2 **Sampled:** 03/18/09 07:00 PM **Desc:** MW-128A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW3 **Sampled:** 03/19/09 11:00 AM **Desc:** MW-36A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW4 **Sampled:** 03/19/09 12:20 PM **Desc:** MW-127A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW5 **Sampled:** 03/19/09 04:30 PM **Desc:** MW-37A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas Parameters
Date Sampled: Mar 18, 2009
Mar 26, 2009; Invoice: 91314

Lab #: 91314GW6 **Sampled:** 03/19/09 04:30 PM **Desc:** MW-40A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW7 **Sampled:** 03/19/09 04:35 PM **Desc:** EW-105A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW8 **Sampled:** 03/20/09 04:50 PM **Desc:** MW-254A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW9 **Sampled:** 03/20/09 01:30 PM **Desc:** EW-103A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW10 **Sampled:** 03/20/09 09:50 AM **Desc:** EW-108A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas Parameters
Date Sampled: Mar 18, 2009
Mar 26, 2009; Invoice: 91314

Lab #: 91314GW11 **Sampled:** 03/20/09 12:17 PM **Desc:** EW-109A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW12 **Sampled:** 03/20/09 11:09 AM **Desc:** EW-110A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

Lab #: 91314GW13 **Sampled:** 03/20/09 12:00 AM **Desc:** Trip Blank

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123316	EPA1666		03/25/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas Parameters
Date Sampled: Mar 18, 2009
Mar 26, 2009; Invoice: 91314

Quality Report

Quality Control Batch: 10123316 **Analyst:** CLS

Blank	**Result**	**Units**
Butyl Acetate	5.00U	ug/L
n-Heptane	5.00U	ug/L
n-Hexane	5.00U	ug/L

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Butyl Acetate	55.8	ug/L	50.0	111.68	80.00-120.00
n-Heptane	47.0	ug/L	50.0	93.96	80.00-120.00
n-Hexane	48.6	ug/L	50.0	97.24	80.00-120.00

Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
Butyl Acetate	51.7	ug/L	50.0	103.32	80.00-120.00	5.00U
n-Heptane	45.7	ug/L	50.0	91.48	80.00-120.00	5.00U
n-Hexane	46.9	ug/L	50.0	93.70	80.00-120.00	5.00U

Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Butyl Acetate	43.4	ug/L	50.0	86.70	80.00-120.00	5.00U	17.49	20.00
n-Heptane	44.3	ug/L	50.0	88.56	80.00-120.00	5.00U	3.24	20.00
n-Hexane	46.6	ug/L	50.0	93.18	80.00-120.00	5.00U	0.56	20.00

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas Parameters
Date Sampled: Mar 18, 2009
Mar 26, 2009; Invoice: 91314

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: 130038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 23, 2009
Mar 31, 2009; Invoice: 91789

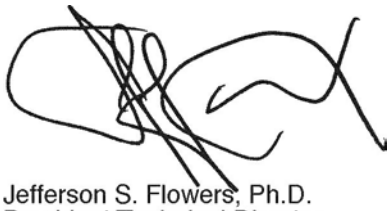
Report Summary

Date Received: Mar 27, 2009 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
91789GW1	MW-32A	EPA1666	CLS	Main Lab	Ground Water
91789GW2	MW-33A	EPA1666	CLS	Main Lab	Ground Water
91789GW3	MW-43A	EPA1666	CLS	Main Lab	Ground Water
91789GW4	MW-57A	EPA1666	CLS	Main Lab	Ground Water
91789GW5	MW-72A	EPA1666	CLS	Main Lab	Ground Water
91789GW6	MW-80A	EPA1666	CLS	Main Lab	Ground Water
91789GW7	EW-104A	EPA1666	CLS	Main Lab	Ground Water
91789GW8	MW-8DA	EPA1666	CLS	Main Lab	Ground Water
91789GW9	MW-8SA	EPA1666	CLS	Main Lab	Ground Water
91789GW10	EW-102A	EPA1666	CLS	Main Lab	Ground Water
91789GW11	MW-19A	EPA1666	CLS	Main Lab	Ground Water
91789GW12	MW-134A	EPA1666	CLS	Main Lab	Ground Water
91789GW13	MW-41A	EPA1666	CLS	Main Lab	Ground Water
91789GW14	MW-130A	EPA1666	CLS	Main Lab	Ground Water
91789GW15	MW-253A	EPA1666	CLS	Main Lab	Ground Water
91789GW16	EW-101A	EPA1666	CLS	Main Lab	Ground Water
91789GW17	EW-107A	EPA1666	CLS	Main Lab	Ground Water
91789GW18	EW-106A	EPA1666	CLS	Main Lab	Ground Water
91789GW19	MW-252A	EPA1666	CLS	Main Lab	Ground Water

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: 130038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 23, 2009
Mar 31, 2009; Invoice: 91789

Analysis Report

Lab #: 91789GW1 **Sampled:** 03/23/09 01:00 PM **Desc:** MW-32A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW2 **Sampled:** 03/23/09 12:15 PM **Desc:** MW-33A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW3 **Sampled:** 03/23/09 12:00 AM **Desc:** MW-43A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW4 **Sampled:** 03/23/09 04:35 PM **Desc:** MW-57A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW5 **Sampled:** 03/23/09 03:48 PM **Desc:** MW-72A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: 130038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 23, 2009
Mar 31, 2009; Invoice: 91789

Lab #: 91789GW6 **Sampled:** 03/23/09 05:02 PM **Desc:** MW-80A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW7 **Sampled:** 03/23/09 03:30 PM **Desc:** EW-104A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW8 **Sampled:** 03/25/09 02:40 PM **Desc:** MW-8DA

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW9 **Sampled:** 03/25/09 03:45 PM **Desc:** MW-8SA

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW10 **Sampled:** 03/25/09 10:39 AM **Desc:** EW-102A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: 130038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 23, 2009
Mar 31, 2009; Invoice: 91789

Lab #: 91789GW11 **Sampled:** 03/24/09 02:00 PM **Desc:** MW-19A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW12 **Sampled:** 03/24/09 10:10 AM **Desc:** MW-134A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW13 **Sampled:** 03/24/09 10:06 AM **Desc:** MW-41A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW14 **Sampled:** 03/24/09 08:50 AM **Desc:** MW-130A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW15 **Sampled:** 03/24/09 04:15 PM **Desc:** MW-253A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: 130038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 23, 2009
Mar 31, 2009; Invoice: 91789

Lab #: 91789GW16 **Sampled:** 03/24/09 12:17 PM **Desc:** EW-101A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW17 **Sampled:** 03/24/09 10:56 AM **Desc:** EW-107A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW18 **Sampled:** 03/24/09 01:10 PM **Desc:** EW-106A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

Lab #: 91789GW19 **Sampled:** 03/24/09 05:33 PM **Desc:** MW-252A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123663	EPA1666		03/30/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: 130038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 23, 2009
Mar 31, 2009; Invoice: 91789

Quality Report

Quality Control Batch: 10123663 **Analyst:** CLS

Blank	**Result**	**Units**
Butyl Acetate	5.00U	ug/L
n-Heptane	5.00U	ug/L
n-Hexane	5.00U	ug/L

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Butyl Acetate	58.8	ug/L	50.0	117.56	80.00-120.00
n-Heptane	47.0	ug/L	50.0	94.06	80.00-120.00
n-Hexane	47.3	ug/L	50.0	94.64	80.00-120.00

Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
Butyl Acetate	47.0	ug/L	50.0	94.02	80.00-120.00	5.00U
n-Heptane	51.0	ug/L	50.0	102.00	80.00-120.00	5.00U
n-Hexane	50.0	ug/L	50.0	100.08	80.00-120.00	5.00U

Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Butyl Acetate	53.4	ug/L	50.0	106.76	80.00-120.00	5.00U	12.69	20.00
n-Heptane	50.6	ug/L	50.0	101.22	80.00-120.00	5.00U	0.77	20.00
n-Hexane	50.0	ug/L	50.0	99.96	80.00-120.00	5.00U	0.12	20.00

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: 130038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 23, 2009
Mar 31, 2009; Invoice: 91789

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

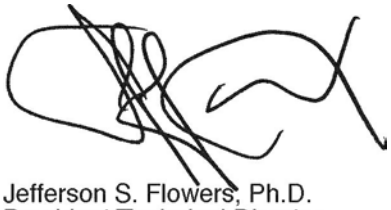
PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 26, 2009
Apr 3, 2009; Invoice: 91863

Report Summary

Date Received: Mar 30, 2009 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
91863GW1	MW-58A	EPA1666	CLS	Main Lab	Ground Water
91863GW2	MW-129A	EPA1666	CLS	Main Lab	Ground Water

Certificate of Results
Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 26, 2009
Apr 3, 2009; Invoice: 91863

Analysis Report

Lab #: 91863GW1 **Sampled:** 03/26/09 01:32 PM **Desc:** MW-58A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

Lab #: 91863GW2 **Sampled:** 03/26/09 12:20 PM **Desc:** MW-129A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 26, 2009
Apr 3, 2009; Invoice: 91863

Quality Report

Quality Control Batch: 10123927 **Analyst:** CLS

Blank	**Result**	**Units**
Butyl Acetate	5.00U	ug/L
n-Heptane	5.00U	ug/L
n-Hexane	5.00U	ug/L

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Butyl Acetate	52.2	ug/L	50.0	104.38	80.00-120.00
n-Heptane	49.7	ug/L	50.0	99.44	80.00-120.00
n-Hexane	49.5	ug/L	50.0	98.92	80.00-120.00

Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
Butyl Acetate	46.6	ug/L	50.0	93.22	80.00-120.00	5.00U
n-Heptane	48.9	ug/L	50.0	97.86	80.00-120.00	5.00U
n-Hexane	47.9	ug/L	50.0	95.80	80.00-120.00	5.00U

Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Butyl Acetate	49.8	ug/L	50.0	99.54	80.00-120.00	5.00U	6.56	20.00
n-Heptane	45.5	ug/L	50.0	90.92	80.00-120.00	5.00U	7.35	20.00
n-Hexane	46.3	ug/L	50.0	92.62	80.00-120.00	5.00U	3.38	20.00

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 26, 2009
Apr 3, 2009; Invoice: 91863

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 30, 2009
Apr 3, 2009; Invoice: 92102

Report Summary

Date Received: Apr 1, 2009 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
92102GW1	MW-39A	EPA1666	CLS	Main Lab	Ground Water
92102GW2	MW-38A	EPA1666	CLS	Main Lab	Ground Water
92102GW3	MW-12A	EPA1666	CLS	Main Lab	Ground Water
92102GW4	IWI-1A	EPA1666	CLS	Main Lab	Ground Water
92102GW5	IWI-2A	EPA1666	CLS	Main Lab	Ground Water
92102GW6	MW-10A	EPA1666	CLS	Main Lab	Ground Water
92102GW7	EW-UFAG-1A	EPA1666	CLS	Main Lab	Ground Water

Certificate of Results
Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

Jefferson S. Flowers, Ph.D.
President/Technical Director

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 30, 2009
Apr 3, 2009; Invoice: 92102

Analysis Report

Lab #: 92102GW1 **Sampled:** 03/30/09 11:45 AM **Desc:** MW-39A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

Lab #: 92102GW2 **Sampled:** 03/30/09 11:15 AM **Desc:** MW-38A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

Lab #: 92102GW3 **Sampled:** 03/30/09 01:40 PM **Desc:** MW-12A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

Lab #: 92102GW4 **Sampled:** 03/30/09 10:42 AM **Desc:** IWI-1A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

Lab #: 92102GW5 **Sampled:** 03/30/09 09:51 AM **Desc:** IWI-2A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 30, 2009
Apr 3, 2009; Invoice: 92102

Lab #: 92102GW6 **Sampled:** 03/30/09 02:22 PM **Desc:** MW-10A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

Lab #: 92102GW7 **Sampled:** 03/30/09 11:25 AM **Desc:** EW-UFAG-1A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10123927	EPA1666		04/02/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 30, 2009
Apr 3, 2009; Invoice: 92102

Quality Report

Quality Control Batch: 10123927 **Analyst:** CLS

Blank	**Result**	**Units**
Butyl Acetate	5.00U	ug/L
n-Heptane	5.00U	ug/L
n-Hexane	5.00U	ug/L

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Butyl Acetate	52.2	ug/L	50.0	104.38	80.00-120.00
n-Heptane	49.7	ug/L	50.0	99.44	80.00-120.00
n-Hexane	49.5	ug/L	50.0	98.92	80.00-120.00

Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
Butyl Acetate	46.6	ug/L	50.0	93.22	80.00-120.00	5.00U
n-Heptane	48.9	ug/L	50.0	97.86	80.00-120.00	5.00U
n-Hexane	47.9	ug/L	50.0	95.80	80.00-120.00	5.00U

Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Butyl Acetate	49.8	ug/L	50.0	99.54	80.00-120.00	5.00U	6.56	20.00
n-Heptane	45.5	ug/L	50.0	90.92	80.00-120.00	5.00U	7.35	20.00
n-Hexane	46.3	ug/L	50.0	92.62	80.00-120.00	5.00U	3.38	20.00

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas parameters
Date Sampled: Mar 30, 2009
Apr 3, 2009; Invoice: 92102

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

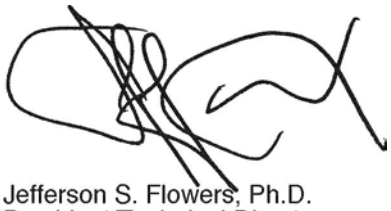
PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas
Date Sampled: Apr 2, 2009
Apr 15, 2009; Invoice: 92475

Report Summary

Date Received: Apr 3, 2009 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
92475GW1	MW-4A	EPA1666	CLS	Main Lab	Ground Water
92475GW2	MW-7SA	EPA1666	CLS	Main Lab	Ground Water
92475GW3	MW-7DA	EPA1666	CLS	Main Lab	Ground Water
92475GW4	MW-3A	EPA1666	CLS	Main Lab	Ground Water
92475GW5	RW-2A	EPA1666	CLS	Main Lab	Ground Water
92475GW6	PZ-LSAS-7A	EPA1666	CLS	Main Lab	Ground Water
92475GW7	RW-1A	EPA1666	CLS	Main Lab	Ground Water
92475GW8	PZ-LSAS-2A	EPA1666	CLS	Main Lab	Ground Water
92475GW9	PZ-LSAS-1A	EPA1666	CLS	Main Lab	Ground Water
92475GW10	PZ-LSAS-3A	EPA1666	CLS	Main Lab	Ground Water
92475GW11	PZ-LSAS-4A	EPA1666	CLS	Main Lab	Ground Water
92475GW12	PZ-LSAS-5A	EPA1666	CLS	Main Lab	Ground Water
92475GW13	MW-123A	EPA1666	CLS	Main Lab	Ground Water
92475GW14	PZ-LSAS-6A	EPA1666	CLS	Main Lab	Ground Water
92475GW15	MW-84A	EPA1666	CLS	Main Lab	Ground Water
92475GW16	MW-5A	EPA1666	CLS	Main Lab	Ground Water
92475GW17	MW-6A	EPA1666	CLS	Main Lab	Ground Water

Certificate of Results
Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas
Date Sampled: Apr 2, 2009
Apr 15, 2009; Invoice: 92475

Analysis Report

Lab #: 92475GW1 **Sampled:** 04/02/09 10:20 AM **Desc:** MW-4A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW2 **Sampled:** 04/01/09 04:55 PM **Desc:** MW-7SA

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW3 **Sampled:** 04/01/09 04:40 PM **Desc:** MW-7DA

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW4 **Sampled:** 04/02/09 12:15 PM **Desc:** MW-3A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW5 **Sampled:** 04/02/09 01:25 PM **Desc:** RW-2A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas
Date Sampled: Apr 2, 2009
Apr 15, 2009; Invoice: 92475

Lab #: 92475GW6 **Sampled:** 04/02/09 02:44 PM **Desc:** PZ-LSAS-7A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW7 **Sampled:** 04/02/09 12:03 PM **Desc:** RW-1A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW8 **Sampled:** 04/02/09 11:10 AM **Desc:** PZ-LSAS-2A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW9 **Sampled:** 04/02/09 11:15 AM **Desc:** PZ-LSAS-1A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW10 **Sampled:** 04/02/09 08:35 AM **Desc:** PZ-LSAS-3A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas
Date Sampled: Apr 2, 2009
Apr 15, 2009; Invoice: 92475

Lab #: 92475GW11 **Sampled:** 04/02/09 09:56 AM **Desc:** PZ-LSAS-4A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW12 **Sampled:** 04/02/09 09:45 AM **Desc:** PZ-LSAS-5A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW13 **Sampled:** 04/02/09 02:58 PM **Desc:** MW-123A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW14 **Sampled:** 04/02/09 03:45 PM **Desc:** PZ-LSAS-6A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW15 **Sampled:** 04/02/09 04:09 PM **Desc:** MW-84A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas
Date Sampled: Apr 2, 2009
Apr 15, 2009; Invoice: 92475

Lab #: 92475GW16 **Sampled:** 04/02/09 01:46 PM **Desc:** MW-5A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

Lab #: 92475GW17 **Sampled:** 04/02/09 02:54 PM **Desc:** MW-6A

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Butyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Heptane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09
n-Hexane	5.00 U	ug/L	1.00	5.00	10.0	10124613	EPA1666		04/14/09

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas
Date Sampled: Apr 2, 2009
Apr 15, 2009; Invoice: 92475

Quality Report

Quality Control Batch: 10124613 **Analyst:** CLS

Blank	**Result**	**Units**
Butyl Acetate	5.00U	ug/L
n-Heptane	5.00U	ug/L
n-Hexane	5.00U	ug/L

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Butyl Acetate	54.7	ug/L	50.0	109.42	80.00-120.00
n-Heptane	47.8	ug/L	50.0	95.52	80.00-120.00
n-Hexane	48.8	ug/L	50.0	97.66	80.00-120.00

Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
Butyl Acetate	48.7	ug/L	50.0	97.32	80.00-120.00	5.00U
n-Heptane	47.2	ug/L	50.0	94.30	80.00-120.00	5.00U
n-Hexane	46.7	ug/L	50.0	93.32	80.00-120.00	5.00U

Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Butyl Acetate	52.3	ug/L	50.0	104.62	80.00-120.00	5.00U	7.23	20.00
n-Heptane	44.5	ug/L	50.0	88.98	80.00-120.00	5.00U	5.81	20.00
n-Hexane	43.7	ug/L	50.0	87.44	80.00-120.00	5.00U	6.51	20.00

FLOWERS CHEMICAL LABORATORIES INC.
P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone: 407-339-5984 / Fax: 407-260-6110 E83018 (Main Lab)
571 NW Mercantile Pl. Suite 111, Port St. Lucie FL 34986 Phone: 772-343-8006 / Fax: 772-343-8089 E86562 (South Lab)
P.O. Box 1200, Madison FL 32341 Phone: 850-973-6878 / Fax: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy Suite 103, Marathon FL 33050 Phone: 305-743-8598 / Fax: 305-743-8598 E35834 (Keys Lab)

Arcadis - Tampa
3350 Buchwood Park Dr. Suite 100
Tampa,FL 33618

PO #: B0038055.0020.00002
Client Project #: Tallevast-Soil Gas
Date Sampled: Apr 2, 2009
Apr 15, 2009; Invoice: 92475

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

ANALYTICAL REPORT

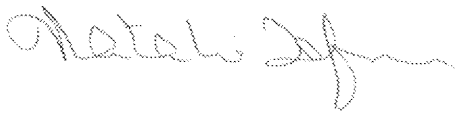
Job Number: 660-28254-1

SDG Number: 660-28254

Job Description: Tallevast-RAP Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/23/2009 1:55 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/23/2009
Revision: 1

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Savannah E87052
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

Job Narrative
660-J28254-1

Comments
No additional comments. See below for revised report narrative.

Receipt
All samples were received in good condition within temperature requirements.

Samples MW-108 and MW-111 were received at pH 10 for sulfide. The samples were pH corrected in the lab to>12.

The unpreserved containers for sample MW-128 were received at pH 9.

8141A
The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 640-54931 was outside of control limits for diazinon. The associated laboratory control sample (LCS) met acceptance criteria. Sample 660-28254-A1 was used for the MS/MSD. The data are flagged with J3 qualifiers.

SM 5310C
The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries (68%/69%) for 660-28228-1 in batch 640-54971 were outside of control limits (80-120%). The associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) met acceptance criteria. The data are flagged with J3 qualifiers.

335.4
The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76776 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

350.1
The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76549 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

SM 3500 CR B
The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76488 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

353.2
The matrix spike duplicate (MSD) recovery for batch 660-76460 was outside of control limits. The associated laboratory control sample (LCS) and matrix spike (MS) met acceptance criteria. The data are flagged with J3 qualifiers.

8151A
Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 660-76768.

8082
The recovery for DCB decachlorobiphenyl surrogate is outside of control limits for samples 660-28254-2 and 660-28254-7. The recovery for TCMX tetrachloro-m-xylene is within control limits. The data are flagged with J1 qualifiers.

8081A/8082
The sample duplicate %RPD for batch 660-76594 has a result of NC for all compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

8270C
The batch sample duplicate %RPD for batch 660-76565(job 660-28276) has a result of NC for all compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

The batch sample duplicate %RPD for batch 660-76752(job 660-28324) has a result of NC for all compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

200.7
The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-133567(job 660-28233) were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

6020
The batch matrix spike (MS) recovery for batch 680-133353(job 680-45623) was outside of control limits for Mn. The associated laboratory control sample (LCS) and matrix spike duplicate (MSD) met acceptance criteria. The data are flagged with J3 qualifiers.

1664A
The sample duplicate %RPD for batch 660-76519 has a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

300.0
The matrix spike duplicate (MSD) recovery for batch 660-76791 was outside of control limits for F. The associated laboratory control sample (LCS) and matrix spike (MS) met acceptance criteria. The data are flagged with J3 qualifiers.

SM 2320B
The sample duplicate %RPD for batch 660-76653 has a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

SM 4500 H+B
The samples were received outside of holding time for pH. The data are flagged with Q qualifiers.

This report was revised on 4-23-09: Per client request, hardness, nickel and zinc were added to the report.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28254-1	**MW-111**				
Mercury	0.00010	I	0.00020	mg/L	7470A
Hardness as calcium carbonate	270		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	150		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	120		10	mg/L	SM 2340B
Specific Conductance	620		5.0	umhos/cm	120.1
Chloride	59		2.0	mg/L	300.0
Fluoride	0.44		0.050	mg/L	300.0
Sulfate	40		2.0	mg/L	300.0
Cyanide	0.023		0.020	mg/L	335.4
Ammonia (as N)	0.24	J3	0.020	mg/L	350.1
Alkalinity	200		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	200		1.0	mg/L	SM 2320B
Total Dissolved Solids	360		10	mg/L	SM 2540C
Total Suspended Solids	8.4		1.0	mg/L	SM 2540D
pH	6.89	Q		SU	SM 4500 H+ B
Total Organic Carbon	12		4.0	mg/L	SM 5310C
MBAS	0.11		0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	14000		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved	20	I	50	ug/L	6020
Calcium, Dissolved	59000		250	ug/L	6020
Chromium, Dissolved	0.79	I	5.0	ug/L	6020
Iron, Dissolved	2700		100	ug/L	6020
Potassium, Dissolved	1500		250	ug/L	6020
Magnesium, Dissolved	28000		250	ug/L	6020
Manganese, Dissolved	34		5.0	ug/L	6020
Sodium, Dissolved	30000		250	ug/L	6020
Nickel, Dissolved	0.34	I	1.0	ug/L	6020
Total Recoverable					
Aluminum	24	I	50	ug/L	6020
Calcium	60000		250	ug/L	6020
Chromium	0.85	I	5.0	ug/L	6020
Iron	2800		100	ug/L	6020
Potassium	1400		250	ug/L	6020
Magnesium	29000		250	ug/L	6020
Manganese	34		5.0	ug/L	6020
Sodium	30000		250	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28254-2	**MW-108**				
Mercury	0.000080	I	0.00020	mg/L	7470A
Hardness as calcium carbonate	190		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	110		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	84		10	mg/L	SM 2340B
Specific Conductance	520		5.0	umhos/cm	120.1
Chloride	51		2.5	mg/L	300.0
Fluoride	0.31	J3	0.050	mg/L	300.0
Sulfate	79		2.5	mg/L	300.0
Cyanide	0.0088	I	0.020	mg/L	335.4
Ammonia (as N)	0.24		0.020	mg/L	350.1
Alkalinity	98		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	98		1.0	mg/L	SM 2320B
Total Dissolved Solids	310		10	mg/L	SM 2540C
Total Suspended Solids	1.8		1.0	mg/L	SM 2540D
pH	6.55	Q		SU	SM 4500 H+ B
Total Organic Carbon	9.2		4.0	mg/L	SM 5310C
MBAS	0.86		0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	18000		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved	27	I	50	ug/L	6020
Calcium, Dissolved	40000		250	ug/L	6020
Chromium, Dissolved	0.92	I	5.0	ug/L	6020
Iron, Dissolved	710		100	ug/L	6020
Potassium, Dissolved	1400		250	ug/L	6020
Magnesium, Dissolved	19000		250	ug/L	6020
Manganese, Dissolved	23		5.0	ug/L	6020
Sodium, Dissolved	33000		250	ug/L	6020
Total Recoverable					
Aluminum	61		50	ug/L	6020
Calcium	43000		250	ug/L	6020
Chromium	1.0	I	5.0	ug/L	6020
Iron	970		100	ug/L	6020
Potassium	1400		250	ug/L	6020
Magnesium	20000		250	ug/L	6020
Manganese	24		5.0	ug/L	6020
Sodium	36000		250	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28254-3	**MW-74**				
Hardness as calcium carbonate	290		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	200		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	94		10	mg/L	SM 2340B
Specific Conductance	600		5.0	umhos/cm	120.1
Chloride	59		5.0	mg/L	300.0
Fluoride	0.42		0.050	mg/L	300.0
Sulfate	140		5.0	mg/L	300.0
Ammonia (as N)	0.11		0.020	mg/L	350.1
Alkalinity	69		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	69		1.0	mg/L	SM 2320B
Total Dissolved Solids	350		10	mg/L	SM 2540C
Total Suspended Solids	16		1.0	mg/L	SM 2540D
pH	6.67	Q		SU	SM 4500 H+ B
Total Organic Carbon	2.4		1.0	mg/L	SM 5310C
MBAS	0.052	I	0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	20000		500	ug/L	200.7 Rev 4.4
Calcium, Dissolved	74000		250	ug/L	6020
Chromium, Dissolved	0.68	I	5.0	ug/L	6020
Iron, Dissolved	9000		100	ug/L	6020
Potassium, Dissolved	1900		250	ug/L	6020
Magnesium, Dissolved	21000		250	ug/L	6020
Manganese, Dissolved	88		5.0	ug/L	6020
Sodium, Dissolved	19000		250	ug/L	6020
Nickel, Dissolved	0.38	I	1.0	ug/L	6020
Total Recoverable					
Aluminum	22	I	50	ug/L	6020
Calcium	79000		250	ug/L	6020
Chromium	0.63	I	5.0	ug/L	6020
Iron	10000		100	ug/L	6020
Potassium	1800		250	ug/L	6020
Magnesium	23000		250	ug/L	6020
Manganese	94		5.0	ug/L	6020
Sodium	20000		250	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28254-4	**MW-104**					
Mercury		0.00012	I	0.00020	mg/L	7470A
Hardness as calcium carbonate		130		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate		91		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate		41		10	mg/L	SM 2340B
Specific Conductance		440		5.0	umhos/cm	120.1
Chloride		46		5.0	mg/L	300.0
Fluoride		0.56		0.050	mg/L	300.0
Sulfate		130		5.0	mg/L	300.0
Cyanide		0.044		0.020	mg/L	335.4
Ammonia (as N)		0.11		0.020	mg/L	350.1
Alkalinity		4.3		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		4.3		1.0	mg/L	SM 2320B
Total Dissolved Solids		280		5.0	mg/L	SM 2540C
Total Suspended Solids		5.4		1.0	mg/L	SM 2540D
pH		6.00	Q		SU	SM 4500 H+ B
Biochemical Oxygen Demand		11		2.0	mg/L	SM 5210B
Total Organic Carbon		3.3		1.0	mg/L	SM 5310C
MBAS		0.075	I	0.10	mg/l LAS	SM 5540C
Dissolved						
SiO2, Silica		11000		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved		240		50	ug/L	6020
Arsenic, Dissolved		0.31	I	2.5	ug/L	6020
Calcium, Dissolved		32000		250	ug/L	6020
Iron, Dissolved		7800		100	ug/L	6020
Potassium, Dissolved		1500		250	ug/L	6020
Magnesium, Dissolved		8700		250	ug/L	6020
Manganese, Dissolved		41		5.0	ug/L	6020
Sodium, Dissolved		39000		250	ug/L	6020
Nickel, Dissolved		0.56	I	1.0	ug/L	6020
Zinc, Dissolved		8.2	I	20	ug/L	6020
Total Recoverable						
Aluminum		280		50	ug/L	6020
Calcium		36000		250	ug/L	6020
Iron		8600		100	ug/L	6020
Potassium		1400		250	ug/L	6020
Magnesium		9900		250	ug/L	6020
Manganese		44		5.0	ug/L	6020
Sodium		42000		250	ug/L	6020
Nickel		0.68	I	1.0	ug/L	6020
Zinc		10	I	20	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28254-5	**MW-82**				
Fluoranthene	0.056	I	0.51	ug/L	8270C LL
Mercury	0.00012	I	0.00020	mg/L	7470A
Hardness as calcium carbonate	370		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	210		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	170		10	mg/L	SM 2340B
Specific Conductance	670		5.0	umhos/cm	120.1
Chloride	38		2.5	mg/L	300.0
Fluoride	0.40		0.050	mg/L	300.0
Sulfate	77		2.5	mg/L	300.0
Cyanide	0.056		0.020	mg/L	335.4
Ammonia (as N)	0.16		0.020	mg/L	350.1
Alkalinity	230		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	230		1.0	mg/L	SM 2320B
Total Dissolved Solids	410		10	mg/L	SM 2540C
Total Suspended Solids	0.60	I	1.0	mg/L	SM 2540D
pH	8.07	Q		SU	SM 4500 H+ B
Biochemical Oxygen Demand	8.5		2.0	mg/L	SM 5210B
Total Organic Carbon	4.0		4.0	mg/L	SM 5310C
MBAS	0.075	I	0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	24000		500	ug/L	200.7 Rev 4.4
Calcium, Dissolved	75000		250	ug/L	6020
Chromium, Dissolved	0.80	I	5.0	ug/L	6020
Iron, Dissolved	28	I	100	ug/L	6020
Potassium, Dissolved	1700		250	ug/L	6020
Magnesium, Dissolved	37000		250	ug/L	6020
Manganese, Dissolved	19		5.0	ug/L	6020
Sodium, Dissolved	13000		250	ug/L	6020
Mercury, Dissolved	0.00012	I	0.00020	mg/L	7470A
Total Recoverable					
Aluminum	24	I	50	ug/L	6020
Calcium	82000		250	ug/L	6020
Chromium	0.87	I	5.0	ug/L	6020
Iron	45	I	100	ug/L	6020
Potassium	1700		250	ug/L	6020
Magnesium	41000		250	ug/L	6020
Manganese	21		5.0	ug/L	6020
Sodium	15000		250	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28254-6	**MW-81**					
Endrin ketone		0.0062	I	0.096	ug/L	8081A
Hardness as calcium carbonate		420		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate		230		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate		180		10	mg/L	SM 2340B
Specific Conductance		750		5.0	umhos/cm	120.1
Chloride		58		5.0	mg/L	300.0
Fluoride		0.55		0.050	mg/L	300.0
Sulfate		110		5.0	mg/L	300.0
Cyanide		0.025		0.020	mg/L	335.4
Ammonia (as N)		0.44		0.020	mg/L	350.1
Alkalinity		210		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		210		1.0	mg/L	SM 2320B
Total Dissolved Solids		470		10	mg/L	SM 2540C
Total Suspended Solids		1.5		1.0	mg/L	SM 2540D
pH		7.98	Q		SU	SM 4500 H+ B
Biochemical Oxygen Demand		7.8		2.0	mg/L	SM 5210B
Total Organic Carbon		5.5		4.0	mg/L	SM 5310C
MBAS		0.063	I	0.10	mg/l LAS	SM 5540C
Dissolved						
SiO2, Silica		24000		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved		17	I	50	ug/L	6020
Calcium, Dissolved		76000		250	ug/L	6020
Chromium, Dissolved		0.76	I	5.0	ug/L	6020
Iron, Dissolved		67	I	100	ug/L	6020
Potassium, Dissolved		1500		250	ug/L	6020
Magnesium, Dissolved		37000		250	ug/L	6020
Manganese, Dissolved		15		5.0	ug/L	6020
Sodium, Dissolved		17000		250	ug/L	6020
Total Recoverable						
Aluminum		20	I	50	ug/L	6020
Calcium		94000		250	ug/L	6020
Chromium		1.0	I	5.0	ug/L	6020
Iron		86	I	100	ug/L	6020
Potassium		1600		250	ug/L	6020
Magnesium		44000		250	ug/L	6020
Manganese		18		5.0	ug/L	6020
Sodium		21000		250	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28254-7	**MW-42**				
Chloroform	0.90		0.50	ug/L	524.2
Trihalomethanes, Total	0.90		0.50	ug/L	524.2
Hardness as calcium carbonate	260		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	170		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	91		10	mg/L	SM 2340B
Specific Conductance	750		5.0	umhos/cm	120.1
Chloride	37		2.0	mg/L	300.0
Fluoride	0.36		0.050	mg/L	300.0
Sulfate	290		10	mg/L	300.0
Ammonia (as N)	2.8		0.020	mg/L	350.1
Alkalinity	1.1		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	1.1		1.0	mg/L	SM 2320B
Total Dissolved Solids	490		10	mg/L	SM 2540C
Total Suspended Solids	0.80	I	1.0	mg/L	SM 2540D
pH	5.75	Q		SU	SM 4500 H+ B
Biochemical Oxygen Demand	7.9		2.0	mg/L	SM 5210B
Total Organic Carbon	3.1		1.0	mg/L	SM 5310C
MBAS	0.13		0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	7900		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved	170		50	ug/L	6020
Arsenic, Dissolved	14		2.5	ug/L	6020
Calcium, Dissolved	66000		250	ug/L	6020
Chromium, Dissolved	1.2	I	5.0	ug/L	6020
Iron, Dissolved	5900		100	ug/L	6020
Potassium, Dissolved	6000		250	ug/L	6020
Magnesium, Dissolved	22000		250	ug/L	6020
Manganese, Dissolved	15		5.0	ug/L	6020
Sodium, Dissolved	38000		250	ug/L	6020
Antimony, Dissolved	12		2.5	ug/L	6020
Selenium, Dissolved	0.63	I	2.5	ug/L	6020
Thallium, Dissolved	2.6		1.0	ug/L	6020
Nickel, Dissolved	6.5		1.0	ug/L	6020
Mercury, Dissolved	0.000074	I	0.00020	mg/L	7470A
Total Recoverable					
Aluminum	180		50	ug/L	6020
Arsenic	14		2.5	ug/L	6020
Calcium	67000		250	ug/L	6020
Iron	6200		100	ug/L	6020
Potassium	5900		250	ug/L	6020
Magnesium	22000		250	ug/L	6020
Manganese	15		5.0	ug/L	6020
Sodium	39000		250	ug/L	6020
Antimony	12		2.5	ug/L	6020
Selenium	0.72	I	2.5	ug/L	6020
Thallium	2.6		1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
Nickel		6.0	1.0	ug/L	6020
Zinc		58	20	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28254-8	**MW-128**				
Phenanthrene	0.25	I	0.47	ug/L	8270C LL
Fluoranthene	0.85		0.47	ug/L	8270C LL
Pyrene	0.71		0.47	ug/L	8270C LL
Benzo[a]anthracene	0.19	I	0.19	ug/L	8270C LL
Chrysene	0.66		0.19	ug/L	8270C LL
Benzo[b]fluoranthene	0.61		0.19	ug/L	8270C LL
Benzo[k]fluoranthene	0.20		0.19	ug/L	8270C LL
Benzo[a]pyrene	0.31		0.19	ug/L	8270C LL
Indeno[1,2,3-cd]pyrene	0.29		0.19	ug/L	8270C LL
Dibenz(a,h)anthracene	0.054	I	0.19	ug/L	8270C LL
Benzo[g,h,i]perylene	0.29	I	0.47	ug/L	8270C LL
Dieldrin	0.025		0.0094	ug/L	8081A
Hardness as calcium carbonate	96		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	88		6.0	mg/L	SM 2340B
Specific Conductance	670		5.0	umhos/cm	120.1
Chloride	33		2.0	mg/L	300.0
Fluoride	0.81		0.050	mg/L	300.0
Sulfate	43		2.0	mg/L	300.0
Cyanide	0.0082	I J3	0.020	mg/L	335.4
Ammonia (as N)	0.77		0.020	mg/L	350.1
Alkalinity	110		1.0	mg/L	SM 2320B
Carbonate Alkalinity as CaCO3	32		1.0	mg/L	SM 2320B
Total Dissolved Solids	180		5.0	mg/L	SM 2540C
Total Suspended Solids	4.6		1.0	mg/L	SM 2540D
pH	11.7	Q		SU	SM 4500 H+ B
Sulfide	1.6		1.0	mg/L	SM 4500 S2 F
Biochemical Oxygen Demand	8.7		2.0	mg/L	SM 5210B
Total Organic Carbon	4.1		1.0	mg/L	SM 5310C
MBAS	0.10		0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	22000		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved	320		50	ug/L	6020
Arsenic, Dissolved	0.77	I	2.5	ug/L	6020
Beryllium, Dissolved	0.080	I	0.50	ug/L	6020
Calcium, Dissolved	33000		250	ug/L	6020
Potassium, Dissolved	5000		250	ug/L	6020
Magnesium, Dissolved	1400		250	ug/L	6020
Sodium, Dissolved	12000		250	ug/L	6020
Nickel, Dissolved	1.9		1.0	ug/L	6020
Mercury, Dissolved	0.000098	I	0.00020	mg/L	7470A
Total Recoverable					
Aluminum	350		50	ug/L	6020
Arsenic	0.90	I	2.5	ug/L	6020
Beryllium	0.38	I	0.50	ug/L	6020
Calcium	35000		250	ug/L	6020
Chromium	0.69	I	5.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
Iron		32	I	100	ug/L	6020
Potassium		4700		250	ug/L	6020
Magnesium		2000		250	ug/L	6020
Sodium		13000		250	ug/L	6020
Lead		0.21	I	1.5	ug/L	6020
Nickel		2.4		1.0	ug/L	6020

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	EPA-DW 524.2	
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL TAM	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C
Organochlorine Pesticides (GC)	TAL TAM	SW846 8081A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL TAM		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL TAM	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL TAM		SW846 3510C
Organophosphorous Pesticides (GC)	TAL TAL	SW846 8141A	
Liquid-Liquid Extraction (Continuous)	TAL TAL		SW846 3520C
Herbicides (GC)	TAL TAM	SW846 8151A	
Extraction (Herbicides)	TAL TAM		SW846 8151A
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Sample Filtration	TAL SAV		FILTRATION
Metals (ICP/MS)	TAL SAV	SW846 6020	
Sample Filtration, Field	TAL SAV		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL TAM	SW846 7470A	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Mercury	TAL TAM		SW846 7470A
Total Hardness (as CaCO3) by calculation	TAL SAV	SM SM 2340B	
Conductivity, Specific Conductance	TAL TAM	MCAWW 120.1	
HEM and SGT-HEM	TAL TAM	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL TAM		1664A 1664A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Cyanide, Total	TAL TAM	MCAWW 335.4	
Distillation, Cyanide	TAL TAM		Distill/CN
Nitrogen, Ammonia	TAL TAM	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL TAM	MCAWW 353.2	
Alkalinity	TAL TAM	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL TAL	SM SM 2540D	
Chromium, Hexavalent	TAL TAM	SM SM 3500 CR B	
pH	TAL TAM	SM SM 4500 H+ B	
Sulfide, Total	TAL TAM	SM SM 4500 S2 F	

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Description	Lab Location	Method	Preparation Method
Matrix: Water			
BOD, 5-Day	TAL TAM	SM SM 5210B	
TOC	TAL TAL	SM SM 5310C	
Methylene Blue Active Substances (MBAS)	TAL TAM	SM SM 5540C	

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method	Analyst	Analyst ID
EPA-DW 524.2	Jakubsen, Melanie	MLJ
SW846 8270C	Campbell, Ed	EC
SW846 8270C LL	Perrin, Todd	TP
SW846 8081A	Perrin, Todd	TP
SW846 8082	Ballard, James	JB
SW846 8141A	Thomas, Martin L	MLT
SW846 8151A	Perrin, Todd	TP
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
SW846 6020	Boyuk, Brian	BB
SW846 7470A	Canales, Richard	RC
SM SM 2340B	Boyuk, Brian	BB
MCAWW 120.1	Steward, Tiffany	TS
1664A 1664A	Patel, Pinali	pp
MCAWW 300.0	Petterson, Alyssa	AP
MCAWW 335.4	Mostafavifar, Efe	EM
MCAWW 350.1	Griffith, Kelly L	KLG
MCAWW 353.2	Steward, Tiffany	TS
SM SM 2320B	Steward, Tiffany	TS
SM SM 2540C	Wilkerson, Shelette	SW
SM SM 2540D	Wilkerson, Shelette	SW
SM SM 3500 CR B	Martin, Randolph	RM
SM SM 4500 H+ B	Steward, Tiffany	TS
SM SM 4500 S2 F	Mostafavifar, Efe	EM
SM SM 5210B	Sengsouvanna, Dom	DS
SM SM 5310C	Frank, Michelle	MF
SM SM 5540C	Cerome, Saurel	SC

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28254-1	MW-111	Water	03/18/2009 1100	03/19/2009 1115
660-28254-2	MW-108	Water	03/18/2009 1200	03/19/2009 1115
660-28254-3	MW-74	Water	03/18/2009 1230	03/19/2009 1115
660-28254-4	MW-104	Water	03/18/2009 1405	03/19/2009 1115
660-28254-5	MW-82	Water	03/18/2009 1650	03/19/2009 1115
660-28254-6	MW-81	Water	03/18/2009 1720	03/19/2009 1115
660-28254-7	MW-42	Water	03/18/2009 1900	03/19/2009 1115
660-28254-8	MW-128	Water	03/18/2009 1900	03/19/2009 1115

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1629
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1072.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	89	70 - 130
4-Bromofluorobenzene	93	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1649
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1073.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	85	70 - 130
4-Bromofluorobenzene	94	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1709
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1074.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	90	70 - 130
4-Bromofluorobenzene	95	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1728
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1075.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	91	70 - 130
4-Bromofluorobenzene	95	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1748
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1076.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	86	70 - 130
4-Bromofluorobenzene	91	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1808
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1077.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	88	70 - 130
4-Bromofluorobenzene	91	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1828
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1078.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.90		0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.90		0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	88	70 - 130
4-Bromofluorobenzene	94	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/20/2009 1847
Date Prepared: N/A

Analysis Batch: 680-133302

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1079.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	85	70 - 130
4-Bromofluorobenzene	91	70 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1257
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23019.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.5
Diethyl phthalate	2.4	U	2.4	9.5
Di-n-butyl phthalate	2.4	U	2.4	9.5
Butyl benzyl phthalate	1.1	U	1.1	9.5
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.7
Di-n-octyl phthalate	2.4	U	2.4	9.5
2-Chlorophenol	2.0	U	2.0	9.5
2-Nitrophenol	1.1	U	1.1	9.5
2,4-Dimethylphenol	1.7	U	1.7	9.5
2,4-Dichlorophenol	1.7	U	1.7	9.5
2,4,6-Trichlorophenol	1.8	U	1.8	9.5
4-Chloro-3-methylphenol	1.6	U	1.6	9.5
2,4-Dinitrophenol	5.9	U	5.9	47
4,6-Dinitro-2-methylphenol	1.4	U	1.4	47
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.9	U	5.9	47
2-Methylphenol	2.2	U	2.2	9.5
2,4,5-Trichlorophenol	2.0	U	2.0	9.5
3 & 4 Methylphenol	2.3	U	2.3	9.5

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	50	29 - 121
Nitrobenzene-d5	51	34 - 130
Phenol-d5	48	25 - 128
2-Fluorobiphenyl	45	36 - 124
Terphenyl-d14	31	14 - 148
2,4,6-Tribromophenol	58	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1317
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23020.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.9
Dimethyl phthalate	2.4	U	2.4	9.7
Diethyl phthalate	2.4	U	2.4	9.7
Di-n-butyl phthalate	2.4	U	2.4	9.7
Butyl benzyl phthalate	1.2	U	1.2	9.7
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	5.8
Di-n-octyl phthalate	2.4	U	2.4	9.7
2-Chlorophenol	2.0	U	2.0	9.7
2-Nitrophenol	1.2	U	1.2	9.7
2,4-Dimethylphenol	1.7	U	1.7	9.7
2,4-Dichlorophenol	1.7	U	1.7	9.7
2,4,6-Trichlorophenol	1.8	U	1.8	9.7
4-Chloro-3-methylphenol	1.7	U	1.7	9.7
2,4-Dinitrophenol	6.0	U	6.0	49
4,6-Dinitro-2-methylphenol	1.5	U	1.5	49
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.0	U	6.0	49
2-Methylphenol	2.2	U	2.2	9.7
2,4,5-Trichlorophenol	2.0	U	2.0	9.7
3 & 4 Methylphenol	2.3	U	2.3	9.7

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	43	29 - 121
Nitrobenzene-d5	44	34 - 130
Phenol-d5	42	25 - 128
2-Fluorobiphenyl	43	36 - 124
Terphenyl-d14	31	14 - 148
2,4,6-Tribromophenol	59	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1419
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23021.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.9
Dimethyl phthalate	2.4	U	2.4	9.7
Diethyl phthalate	2.4	U	2.4	9.7
Di-n-butyl phthalate	2.4	U	2.4	9.7
Butyl benzyl phthalate	1.2	U	1.2	9.7
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	5.8
Di-n-octyl phthalate	2.4	U	2.4	9.7
2-Chlorophenol	2.0	U	2.0	9.7
2-Nitrophenol	1.2	U	1.2	9.7
2,4-Dimethylphenol	1.7	U	1.7	9.7
2,4-Dichlorophenol	1.7	U	1.7	9.7
2,4,6-Trichlorophenol	1.8	U	1.8	9.7
4-Chloro-3-methylphenol	1.7	U	1.7	9.7
2,4-Dinitrophenol	6.0	U	6.0	49
4,6-Dinitro-2-methylphenol	1.5	U	1.5	49
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.0	U	6.0	49
2-Methylphenol	2.2	U	2.2	9.7
2,4,5-Trichlorophenol	2.0	U	2.0	9.7
3 & 4 Methylphenol	2.3	U	2.3	9.7

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	48	29 - 121
Nitrobenzene-d5	51	34 - 130
Phenol-d5	40	25 - 128
2-Fluorobiphenyl	52	36 - 124
Terphenyl-d14	51	14 - 148
2,4,6-Tribromophenol	75	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1442
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23022.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.9
Dimethyl phthalate	2.4	U	2.4	9.7
Diethyl phthalate	2.4	U	2.4	9.7
Di-n-butyl phthalate	2.4	U	2.4	9.7
Butyl benzyl phthalate	1.2	U	1.2	9.7
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	5.8
Di-n-octyl phthalate	2.4	U	2.4	9.7
2-Chlorophenol	2.0	U	2.0	9.7
2-Nitrophenol	1.2	U	1.2	9.7
2,4-Dimethylphenol	1.7	U	1.7	9.7
2,4-Dichlorophenol	1.7	U	1.7	9.7
2,4,6-Trichlorophenol	1.8	U	1.8	9.7
4-Chloro-3-methylphenol	1.7	U	1.7	9.7
2,4-Dinitrophenol	6.0	U	6.0	49
4,6-Dinitro-2-methylphenol	1.5	U	1.5	49
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.0	U	6.0	49
2-Methylphenol	2.2	U	2.2	9.7
2,4,5-Trichlorophenol	2.0	U	2.0	9.7
3 & 4 Methylphenol	2.3	U	2.3	9.7

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	40	29 - 121
Nitrobenzene-d5	44	34 - 130
Phenol-d5	35	25 - 128
2-Fluorobiphenyl	45	36 - 124
Terphenyl-d14	27	14 - 148
2,4,6-Tribromophenol	63	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1505
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23023.D
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.5	U	2.5	4.2
Dimethyl phthalate	2.6	U	2.6	10
Diethyl phthalate	2.6	U	2.6	10
Di-n-butyl phthalate	2.6	U	2.6	10
Butyl benzyl phthalate	1.2	U	1.2	10
Bis(2-ethylhexyl) phthalate	1.4	U	1.4	6.3
Di-n-octyl phthalate	2.6	U	2.6	10
2-Chlorophenol	2.2	U	2.2	10
2-Nitrophenol	1.2	U	1.2	10
2,4-Dimethylphenol	1.9	U	1.9	10
2,4-Dichlorophenol	1.9	U	1.9	10
2,4,6-Trichlorophenol	2.0	U	2.0	10
4-Chloro-3-methylphenol	1.8	U	1.8	10
2,4-Dinitrophenol	6.5	U	6.5	52
4,6-Dinitro-2-methylphenol	1.6	U	1.6	52
Pentachlorophenol	1.6	U	1.6	16
4-Nitrophenol	6.5	U	6.5	52
2-Methylphenol	2.4	U	2.4	10
2,4,5-Trichlorophenol	2.2	U	2.2	10
3 & 4 Methylphenol	2.5	U	2.5	10

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	54	29 - 121
Nitrobenzene-d5	58	34 - 130
Phenol-d5	51	25 - 128
2-Fluorobiphenyl	52	36 - 124
Terphenyl-d14	41	14 - 148
2,4,6-Tribromophenol	76	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1526
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23024.D
Initial Weight/Volume: 1010 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.4	U	2.4	4.0
Dimethyl phthalate	2.5	U	2.5	9.9
Diethyl phthalate	2.5	U	2.5	9.9
Di-n-butyl phthalate	2.5	U	2.5	9.9
Butyl benzyl phthalate	1.2	U	1.2	9.9
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	5.9
Di-n-octyl phthalate	2.5	U	2.5	9.9
2-Chlorophenol	2.1	U	2.1	9.9
2-Nitrophenol	1.2	U	1.2	9.9
2,4-Dimethylphenol	1.8	U	1.8	9.9
2,4-Dichlorophenol	1.8	U	1.8	9.9
2,4,6-Trichlorophenol	1.9	U	1.9	9.9
4-Chloro-3-methylphenol	1.7	U	1.7	9.9
2,4-Dinitrophenol	6.1	U	6.1	50
4,6-Dinitro-2-methylphenol	1.5	U	1.5	50
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.1	U	6.1	50
2-Methylphenol	2.3	U	2.3	9.9
2,4,5-Trichlorophenol	2.1	U	2.1	9.9
3 & 4 Methylphenol	2.4	U	2.4	9.9

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	45	29 - 121
Nitrobenzene-d5	44	34 - 130
Phenol-d5	43	25 - 128
2-Fluorobiphenyl	42	36 - 124
Terphenyl-d14	32	14 - 148
2,4,6-Tribromophenol	56	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1547
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23025.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.6
Diethyl phthalate	2.4	U	2.4	9.6
Di-n-butyl phthalate	2.4	U	2.4	9.6
Butyl benzyl phthalate	1.2	U	1.2	9.6
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.8
Di-n-octyl phthalate	2.4	U	2.4	9.6
2-Chlorophenol	2.0	U	2.0	9.6
2-Nitrophenol	1.2	U	1.2	9.6
2,4-Dimethylphenol	1.7	U	1.7	9.6
2,4-Dichlorophenol	1.7	U	1.7	9.6
2,4,6-Trichlorophenol	1.8	U	1.8	9.6
4-Chloro-3-methylphenol	1.6	U	1.6	9.6
2,4-Dinitrophenol	6.0	U	6.0	48
4,6-Dinitro-2-methylphenol	1.4	U	1.4	48
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	6.0	U	6.0	48
2-Methylphenol	2.2	U	2.2	9.6
2,4,5-Trichlorophenol	2.0	U	2.0	9.6
3 & 4 Methylphenol	2.3	U	2.3	9.6

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	40	29 - 121
Nitrobenzene-d5	48	34 - 130
Phenol-d5	36	25 - 128
2-Fluorobiphenyl	45	36 - 124
Terphenyl-d14	31	14 - 148
2,4,6-Tribromophenol	63	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/23/2009 1607
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565

Instrument ID: BSMC5973
Lab File ID: 1CC23026.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.5
Diethyl phthalate	2.4	U	2.4	9.5
Di-n-butyl phthalate	2.4	U	2.4	9.5
Butyl benzyl phthalate	1.1	U	1.1	9.5
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.7
Di-n-octyl phthalate	2.4	U	2.4	9.5
2-Chlorophenol	2.0	U	2.0	9.5
2-Nitrophenol	1.1	U	1.1	9.5
2,4-Dimethylphenol	1.7	U	1.7	9.5
2,4-Dichlorophenol	1.7	U	1.7	9.5
2,4,6-Trichlorophenol	1.8	U	1.8	9.5
4-Chloro-3-methylphenol	1.6	U	1.6	9.5
2,4-Dinitrophenol	5.9	U	5.9	47
4,6-Dinitro-2-methylphenol	1.4	U	1.4	47
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.9	U	5.9	47
2-Methylphenol	2.2	U	2.2	9.5
2,4,5-Trichlorophenol	2.0	U	2.0	9.5
3 & 4 Methylphenol	2.3	U	2.3	9.5

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	44	29 - 121
Nitrobenzene-d5	45	34 - 130
Phenol-d5	42	25 - 128
2-Fluorobiphenyl	44	36 - 124
Terphenyl-d14	30	14 - 148
2,4,6-Tribromophenol	59	29 - 143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1421
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26018.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.24	U	0.24	1.9
2-Methylnaphthalene	0.48	U	0.48	1.9
1-Methylnaphthalene	0.48	U	0.48	1.9
Acenaphthylene	0.24	U	0.24	0.95
Acenaphthene	0.48	U	0.48	1.9
Fluorene	0.48	U	0.48	1.9
Phenanthrene	0.19	U	0.19	0.48
Anthracene	0.072	U	0.072	0.19
Fluoranthene	0.051	U	0.051	0.48
Pyrene	0.085	U	0.085	0.48
Benzo[a]anthracene	0.048	U	0.048	0.19
Chrysene	0.066	U	0.066	0.19
Benzo[b]fluoranthene	0.048	U	0.048	0.19
Benzo[k]fluoranthene	0.054	U	0.054	0.19
Benzo[a]pyrene	0.054	U	0.054	0.19
Indeno[1,2,3-cd]pyrene	0.048	U	0.048	0.19
Dibenz(a,h)anthracene	0.048	U	0.048	0.19
Benzo[g,h,i]perylene	0.095	U	0.095	0.48

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	76	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1437
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26019.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.49	U	0.49	2.0
1-Methylnaphthalene	0.49	U	0.49	2.0
Acenaphthylene	0.25	U	0.25	0.98
Acenaphthene	0.49	U	0.49	2.0
Fluorene	0.49	U	0.49	2.0
Phenanthrene	0.20	U	0.20	0.49
Anthracene	0.075	U	0.075	0.20
Fluoranthene	0.053	U	0.053	0.49
Pyrene	0.087	U	0.087	0.49
Benzo[a]anthracene	0.049	U	0.049	0.20
Chrysene	0.068	U	0.068	0.20
Benzo[b]fluoranthene	0.049	U	0.049	0.20
Benzo[k]fluoranthene	0.056	U	0.056	0.20
Benzo[a]pyrene	0.056	U	0.056	0.20
Indeno[1,2,3-cd]pyrene	0.049	U	0.049	0.20
Dibenz(a,h)anthracene	0.049	U	0.049	0.20
Benzo[g,h,i]perylene	0.098	U	0.098	0.49

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	65	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1452
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26020.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.24	U	0.24	1.9
2-Methylnaphthalene	0.49	U	0.49	1.9
1-Methylnaphthalene	0.49	U	0.49	1.9
Acenaphthylene	0.24	U	0.24	0.97
Acenaphthene	0.49	U	0.49	1.9
Fluorene	0.49	U	0.49	1.9
Phenanthrene	0.19	U	0.19	0.49
Anthracene	0.074	U	0.074	0.19
Fluoranthene	0.052	U	0.052	0.49
Pyrene	0.086	U	0.086	0.49
Benzo[a]anthracene	0.049	U	0.049	0.19
Chrysene	0.067	U	0.067	0.19
Benzo[b]fluoranthene	0.049	U	0.049	0.19
Benzo[k]fluoranthene	0.055	U	0.055	0.19
Benzo[a]pyrene	0.055	U	0.055	0.19
Indeno[1,2,3-cd]pyrene	0.049	U	0.049	0.19
Dibenz(a,h)anthracene	0.049	U	0.049	0.19
Benzo[g,h,i]perylene	0.097	U	0.097	0.49

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	86	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1507
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26021.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.24	U	0.24	1.9
2-Methylnaphthalene	0.48	U	0.48	1.9
1-Methylnaphthalene	0.48	U	0.48	1.9
Acenaphthylene	0.24	U	0.24	0.95
Acenaphthene	0.48	U	0.48	1.9
Fluorene	0.48	U	0.48	1.9
Phenanthrene	0.19	U	0.19	0.48
Anthracene	0.072	U	0.072	0.19
Fluoranthene	0.051	U	0.051	0.48
Pyrene	0.085	U	0.085	0.48
Benzo[a]anthracene	0.048	U	0.048	0.19
Chrysene	0.066	U	0.066	0.19
Benzo[b]fluoranthene	0.048	U	0.048	0.19
Benzo[k]fluoranthene	0.054	U	0.054	0.19
Benzo[a]pyrene	0.054	U	0.054	0.19
Indeno[1,2,3-cd]pyrene	0.048	U	0.048	0.19
Dibenz(a,h)anthracene	0.048	U	0.048	0.19
Benzo[g,h,i]perylene	0.095	U	0.095	0.48

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	71	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1523
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26022.D
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.26	U	0.26	2.0
2-Methylnaphthalene	0.51	U	0.51	2.0
1-Methylnaphthalene	0.51	U	0.51	2.0
Acenaphthylene	0.26	U	0.26	1.0
Acenaphthene	0.51	U	0.51	2.0
Fluorene	0.51	U	0.51	2.0
Phenanthrene	0.20	U	0.20	0.51
Anthracene	0.078	U	0.078	0.20
Fluoranthene	0.056	I	0.055	0.51
Pyrene	0.091	U	0.091	0.51
Benzo[a]anthracene	0.051	U	0.051	0.20
Chrysene	0.070	U	0.070	0.20
Benzo[b]fluoranthene	0.051	U	0.051	0.20
Benzo[k]fluoranthene	0.058	U	0.058	0.20
Benzo[a]pyrene	0.058	U	0.058	0.20
Indeno[1,2,3-cd]pyrene	0.051	U	0.051	0.20
Dibenz(a,h)anthracene	0.051	U	0.051	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.51

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	72	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1538
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26023.D
Initial Weight/Volume: 1010 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.50	U	0.50	2.0
1-Methylnaphthalene	0.50	U	0.50	2.0
Acenaphthylene	0.25	U	0.25	0.99
Acenaphthene	0.50	U	0.50	2.0
Fluorene	0.50	U	0.50	2.0
Phenanthrene	0.20	U	0.20	0.50
Anthracene	0.075	U	0.075	0.20
Fluoranthene	0.053	U	0.053	0.50
Pyrene	0.088	U	0.088	0.50
Benzo[a]anthracene	0.050	U	0.050	0.20
Chrysene	0.068	U	0.068	0.20
Benzo[b]fluoranthene	0.050	U	0.050	0.20
Benzo[k]fluoranthene	0.056	U	0.056	0.20
Benzo[a]pyrene	0.056	U	0.056	0.20
Indeno[1,2,3-cd]pyrene	0.050	U	0.050	0.20
Dibenz(a,h)anthracene	0.050	U	0.050	0.20
Benzo[g,h,i]perylene	0.099	U	0.099	0.50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	61	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1553
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26024.D
Initial Weight/Volume: 1010 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.50	U	0.50	2.0
1-Methylnaphthalene	0.50	U	0.50	2.0
Acenaphthylene	0.25	U	0.25	0.99
Acenaphthene	0.50	U	0.50	2.0
Fluorene	0.50	U	0.50	2.0
Phenanthrene	0.20	U	0.20	0.50
Anthracene	0.075	U	0.075	0.20
Fluoranthene	0.053	U	0.053	0.50
Pyrene	0.088	U	0.088	0.50
Benzo[a]anthracene	0.050	U	0.050	0.20
Chrysene	0.068	U	0.068	0.20
Benzo[b]fluoranthene	0.050	U	0.050	0.20
Benzo[k]fluoranthene	0.056	U	0.056	0.20
Benzo[a]pyrene	0.056	U	0.056	0.20
Indeno[1,2,3-cd]pyrene	0.050	U	0.050	0.20
Dibenz(a,h)anthracene	0.050	U	0.050	0.20
Benzo[g,h,i]perylene	0.099	U	0.099	0.50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	97	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 1609
Date Prepared: 03/25/2009 1315

Analysis Batch: 660-76895
Prep Batch: 660-76752

Instrument ID: HP6890/5973
Lab File ID: 1AC26025.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.23	U	0.23	1.9
2-Methylnaphthalene	0.47	U	0.47	1.9
1-Methylnaphthalene	0.47	U	0.47	1.9
Acenaphthylene	0.23	U	0.23	0.94
Acenaphthene	0.47	U	0.47	1.9
Fluorene	0.47	U	0.47	1.9
Phenanthrene	0.25	I	0.19	0.47
Anthracene	0.071	U	0.071	0.19
Fluoranthene	0.85		0.051	0.47
Pyrene	0.71		0.084	0.47
Benzo[a]anthracene	0.19	I	0.047	0.19
Chrysene	0.66		0.065	0.19
Benzo[b]fluoranthene	0.61		0.047	0.19
Benzo[k]fluoranthene	0.20		0.054	0.19
Benzo[a]pyrene	0.31		0.054	0.19
Indeno[1,2,3-cd]pyrene	0.29		0.047	0.19
Dibenz(a,h)anthracene	0.054	I	0.047	0.19
Benzo[g,h,i]perylene	0.29	I	0.094	0.47

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	74	30 - 130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1249
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000017.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0095
4,4'-DDE	0.0052	U	0.0052	0.0095
4,4'-DDT	0.0030	U	0.0030	0.0095
Aldrin	0.0017	U	0.0017	0.0095
alpha-BHC	0.0027	U	0.0027	0.0095
beta-BHC	0.0025	U	0.0025	0.0095
Chlordane (technical)	0.054	U	0.054	0.47
delta-BHC	0.0026	U	0.0026	0.0095
Dieldrin	0.0013	U	0.0013	0.0095
Endosulfan I	0.0032	U	0.0032	0.0095
Endosulfan II	0.0031	U	0.0031	0.0095
Endosulfan sulfate	0.0028	U	0.0028	0.0095
Endrin	0.0030	U	0.0030	0.0095
Endrin aldehyde	0.0030	U	0.0030	0.0095
Endrin ketone	0.0051	U	0.0051	0.095
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0095
Heptachlor	0.0029	U	0.0029	0.0095
Heptachlor epoxide	0.0030	U	0.0030	0.0095
Methoxychlor	0.0048	U	0.0048	0.0095
Toxaphene	0.68	U	0.68	2.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	56	30 - 150
Tetrachloro-m-xylene	71	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1316
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000019.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Endrin aldehyde	0.0031	U	0.0031	0.0097

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1734
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J040.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0040	U	0.0040	0.0097
4,4'-DDE	0.0053	U	0.0053	0.0097
4,4'-DDT	0.0031	U	0.0031	0.0097
Aldrin	0.0018	U	0.0018	0.0097
alpha-BHC	0.0027	U	0.0027	0.0097
beta-BHC	0.0026	U	0.0026	0.0097
Chlordane (technical)	0.055	U	0.055	0.49
delta-BHC	0.0027	U	0.0027	0.0097
Dieldrin	0.0014	U	0.0014	0.0097
Endosulfan I	0.0033	U	0.0033	0.0097
Endosulfan II	0.0032	U	0.0032	0.0097
Endosulfan sulfate	0.0029	U	0.0029	0.0097
Endrin	0.0030	U	0.0030	0.0097
Endrin ketone	0.0052	U	0.0052	0.097
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0097
Heptachlor	0.0030	U	0.0030	0.0097
Heptachlor epoxide	0.0031	U	0.0031	0.0097
Methoxychlor	0.0049	U	0.0049	0.0097
Toxaphene	0.70	U	0.70	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	65	30 - 150
Tetrachloro-m-xylene	62	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1450
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000026.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0040	U	0.0040	0.0098
4,4'-DDE	0.0054	U	0.0054	0.0098
4,4'-DDT	0.0031	U	0.0031	0.0098
Aldrin	0.0018	U	0.0018	0.0098
alpha-BHC	0.0027	U	0.0027	0.0098
beta-BHC	0.0026	U	0.0026	0.0098
Chlordane (technical)	0.056	U	0.056	0.49
delta-BHC	0.0027	U	0.0027	0.0098
Dieldrin	0.0014	U	0.0014	0.0098
Endosulfan I	0.0034	U	0.0034	0.0098
Endosulfan II	0.0032	U	0.0032	0.0098
Endosulfan sulfate	0.0029	U	0.0029	0.0098
Endrin	0.0031	U	0.0031	0.0098
Endrin aldehyde	0.0031	U	0.0031	0.0098
Endrin ketone	0.0053	U	0.0053	0.098
gamma-BHC (Lindane)	0.0026	U	0.0026	0.0098
Heptachlor	0.0030	U	0.0030	0.0098
Heptachlor epoxide	0.0031	U	0.0031	0.0098
Methoxychlor	0.0050	U	0.0050	0.0098
Toxaphene	0.71	U	0.71	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	48	30 - 150
Tetrachloro-m-xylene	76	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1503
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000027.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0096
4,4'-DDE	0.0053	U	0.0053	0.0096
4,4'-DDT	0.0030	U	0.0030	0.0096
Aldrin	0.0018	U	0.0018	0.0096
alpha-BHC	0.0027	U	0.0027	0.0096
beta-BHC	0.0026	U	0.0026	0.0096
Chlordane (technical)	0.055	U	0.055	0.48
delta-BHC	0.0027	U	0.0027	0.0096
Dieldrin	0.0013	U	0.0013	0.0096
Endosulfan I	0.0033	U	0.0033	0.0096
Endosulfan II	0.0032	U	0.0032	0.0096
Endosulfan sulfate	0.0028	U	0.0028	0.0096
Endrin	0.0030	U	0.0030	0.0096
Endrin aldehyde	0.0031	U	0.0031	0.0096
Endrin ketone	0.0052	U	0.0052	0.096
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0096
Heptachlor	0.0030	U	0.0030	0.0096
Heptachlor epoxide	0.0030	U	0.0030	0.0096
Methoxychlor	0.0049	U	0.0049	0.0096
Toxaphene	0.69	U	0.69	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	59	30 - 150
Tetrachloro-m-xylene	88	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1552
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000030.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0095
4,4'-DDE	0.0052	U	0.0052	0.0095
4,4'-DDT	0.0030	U	0.0030	0.0095
Aldrin	0.0017	U	0.0017	0.0095
alpha-BHC	0.0027	U	0.0027	0.0095
beta-BHC	0.0025	U	0.0025	0.0095
Chlordane (technical)	0.054	U	0.054	0.48
delta-BHC	0.0026	U	0.0026	0.0095
Dieldrin	0.0013	U	0.0013	0.0095
Endosulfan I	0.0033	U	0.0033	0.0095
Endosulfan II	0.0031	U	0.0031	0.0095
Endosulfan sulfate	0.0028	U	0.0028	0.0095
Endrin	0.0030	U	0.0030	0.0095
Endrin aldehyde	0.0030	U	0.0030	0.0095
Endrin ketone	0.0051	U	0.0051	0.095
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0095
Heptachlor	0.0029	U	0.0029	0.0095
Heptachlor epoxide	0.0030	U	0.0030	0.0095
Methoxychlor	0.0048	U	0.0048	0.0095
Toxaphene	0.69	U	0.69	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	69	30 - 150
Tetrachloro-m-xylene	64	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1605
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000031.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0096
4,4'-DDE	0.0053	U	0.0053	0.0096
4,4'-DDT	0.0030	U	0.0030	0.0096
Aldrin	0.0018	U	0.0018	0.0096
alpha-BHC	0.0027	U	0.0027	0.0096
beta-BHC	0.0026	U	0.0026	0.0096
Chlordane (technical)	0.055	U	0.055	0.48
delta-BHC	0.0027	U	0.0027	0.0096
Dieldrin	0.0013	U	0.0013	0.0096
Endosulfan I	0.0033	U	0.0033	0.0096
Endosulfan II	0.0032	U	0.0032	0.0096
Endosulfan sulfate	0.0028	U	0.0028	0.0096
Endrin	0.0030	U	0.0030	0.0096
Endrin aldehyde	0.0031	U	0.0031	0.0096
Endrin ketone	0.0062	I	0.0052	0.096
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0096
Heptachlor	0.0030	U	0.0030	0.0096
Heptachlor epoxide	0.0030	U	0.0030	0.0096
Methoxychlor	0.0049	U	0.0049	0.0096
Toxaphene	0.69	U	0.69	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	80	30 - 150
Tetrachloro-m-xylene	91	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1619
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000032.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0096
4,4'-DDE	0.0053	U	0.0053	0.0096
4,4'-DDT	0.0030	U	0.0030	0.0096
Aldrin	0.0018	U	0.0018	0.0096
alpha-BHC	0.0027	U	0.0027	0.0096
beta-BHC	0.0026	U	0.0026	0.0096
Chlordane (technical)	0.055	U	0.055	0.48
delta-BHC	0.0027	U	0.0027	0.0096
Dieldrin	0.0013	U	0.0013	0.0096
Endosulfan I	0.0033	U	0.0033	0.0096
Endosulfan II	0.0032	U	0.0032	0.0096
Endosulfan sulfate	0.0028	U	0.0028	0.0096
Endrin	0.0030	U	0.0030	0.0096
Endrin aldehyde	0.0031	U	0.0031	0.0096
Endrin ketone	0.0052	U	0.0052	0.096
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0096
Heptachlor	0.0030	U	0.0030	0.0096
Heptachlor epoxide	0.0030	U	0.0030	0.0096
Methoxychlor	0.0049	U	0.0049	0.0096
Toxaphene	0.69	U	0.69	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	38	30 - 150
Tetrachloro-m-xylene	89	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1632
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000033.D
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0094
4,4'-DDE	0.0052	U	0.0052	0.0094
4,4'-DDT	0.0030	U	0.0030	0.0094
Aldrin	0.0017	U	0.0017	0.0094
alpha-BHC	0.0026	U	0.0026	0.0094
beta-BHC	0.0025	U	0.0025	0.0094
Chlordane (technical)	0.054	U	0.054	0.47
delta-BHC	0.0026	U	0.0026	0.0094
Dieldrin	0.025		0.0013	0.0094
Endosulfan I	0.0032	U	0.0032	0.0094
Endosulfan II	0.0031	U	0.0031	0.0094
Endosulfan sulfate	0.0028	U	0.0028	0.0094
Endrin	0.0029	U	0.0029	0.0094
Endrin aldehyde	0.0030	U	0.0030	0.0094
Endrin ketone	0.0051	U	0.0051	0.094
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0094
Heptachlor	0.0029	U	0.0029	0.0094
Heptachlor epoxide	0.0030	U	0.0030	0.0094
Methoxychlor	0.0048	U	0.0048	0.0094
Toxaphene	0.68	U	0.68	2.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	69	30 - 150
Tetrachloro-m-xylene	69	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1224
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K016.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.47
PCB-1221	0.14	U	0.14	0.47
PCB-1232	0.36	U	0.36	0.47
PCB-1242	0.073	U	0.073	0.47
PCB-1248	0.066	U	0.066	0.47
PCB-1254	0.11	U	0.11	0.47
PCB-1260	0.095	U	0.095	0.47

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	58	30 - 150
Tetrachloro-m-xylene	61	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1153
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K016.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.49
PCB-1221	0.15	U	0.15	0.49
PCB-1232	0.37	U	0.37	0.49
PCB-1242	0.075	U	0.075	0.49
PCB-1248	0.068	U	0.068	0.49
PCB-1254	0.12	U	0.12	0.49
PCB-1260	0.097	U	0.097	0.49

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	17	J1	30 - 150
Tetrachloro-m-xylene	57		30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1830
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K042.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.49
PCB-1221	0.15	U	0.15	0.49
PCB-1232	0.37	U	0.37	0.49
PCB-1242	0.075	U	0.075	0.49
PCB-1248	0.069	U	0.069	0.49
PCB-1254	0.12	U	0.12	0.49
PCB-1260	0.098	U	0.098	0.49

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	43	30 - 150
Tetrachloro-m-xylene	64	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1843
Date Prepared: 03/21/2009 1429

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K043.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.48
PCB-1221	0.14	U	0.14	0.48
PCB-1232	0.37	U	0.37	0.48
PCB-1242	0.074	U	0.074	0.48
PCB-1248	0.067	U	0.067	0.48
PCB-1254	0.12	U	0.12	0.48
PCB-1260	0.096	U	0.096	0.48

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	46	30 - 150
Tetrachloro-m-xylene	55	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1910
Date Prepared: 03/21/2009 1429

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K045.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.48
PCB-1221	0.14	U	0.14	0.48
PCB-1232	0.36	U	0.36	0.48
PCB-1242	0.073	U	0.073	0.48
PCB-1248	0.067	U	0.067	0.48
PCB-1254	0.11	U	0.11	0.48
PCB-1260	0.095	U	0.095	0.48

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	77	30 - 150
Tetrachloro-m-xylene	63	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1923
Date Prepared: 03/21/2009 1429

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K046.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.48
PCB-1221	0.14	U	0.14	0.48
PCB-1232	0.37	U	0.37	0.48
PCB-1242	0.074	U	0.074	0.48
PCB-1248	0.067	U	0.067	0.48
PCB-1254	0.12	U	0.12	0.48
PCB-1260	0.096	U	0.096	0.48

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	30 - 150
Tetrachloro-m-xylene	69	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1937
Date Prepared: 03/21/2009 1429

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K047.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.48
PCB-1221	0.14	U	0.14	0.48
PCB-1232	0.37	U	0.37	0.48
PCB-1242	0.074	U	0.074	0.48
PCB-1248	0.067	U	0.067	0.48
PCB-1254	0.12	U	0.12	0.48
PCB-1260	0.096	U	0.096	0.48

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	27	J1	30 - 150
Tetrachloro-m-xylene	60		30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1950
Date Prepared: 03/21/2009 1429

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K048.D
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.47
PCB-1221	0.14	U	0.14	0.47
PCB-1232	0.36	U	0.36	0.47
PCB-1242	0.073	U	0.073	0.47
PCB-1248	0.066	U	0.066	0.47
PCB-1254	0.11	U	0.11	0.47
PCB-1260	0.094	U	0.094	0.47

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	74	30 - 150
Tetrachloro-m-xylene	66	30 - 150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2107
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F21.d
Initial Weight/Volume: 500 mL
Final Weight/Volume: 2.5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.33	U	0.33	1.0
Bolstar	0.095	U	0.095	1.0
Chlorpyrifos	0.11	U	0.11	1.0
Coumaphos	0.081	U	0.081	1.0
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U J3	0.11	1.0
Dichlorvos	0.26	U	0.26	2.0
Dimethoate	0.32	U	0.32	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.071	U	0.071	1.0
Ethion	0.11	U	0.11	0.50
Ethoprop	0.41	U	0.41	0.50
Ethyl Parathion	0.080	U	0.080	1.0
Fensulfothion	0.17	U	0.17	5.0
Malathion	0.092	U	0.092	1.0
Merphos	0.13	U	0.13	1.0
Methyl parathion	0.12	U	0.12	0.50
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.6	U	2.6	10
Naled	0.36	U	0.36	5.0
Phorate	0.16	U	0.16	1.0
Ronnel	0.13	U	0.13	1.0
Stirophos	0.084	U	0.084	1.0
Sulfotepp	0.055	U	0.055	0.50
Tokuthion	0.087	U	0.087	1.0
Trichloronate	0.11	U	0.11	1.0

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	114	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2120
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F22.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.96
Bolstar	0.091	U	0.091	0.96
Chlorpyrifos	0.11	U	0.11	0.96
Coumaphos	0.078	U	0.078	0.96
Demeton-O	0.11	U	0.11	2.4
Diazinon	0.11	U	0.11	0.96
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.31	U	0.31	1.9
Disulfoton	0.12	U	0.12	1.9
EPN	0.068	U	0.068	0.96
Ethion	0.11	U	0.11	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.077	U	0.077	0.96
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.96
Merphos	0.12	U	0.12	0.96
Methyl parathion	0.12	U	0.12	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.6
Naled	0.35	U	0.35	4.8
Phorate	0.15	U	0.15	0.96
Ronnel	0.12	U	0.12	0.96
Stirophos	0.081	U	0.081	0.96
Sulfotepp	0.053	U	0.053	0.48
Tokuthion	0.084	U	0.084	0.96
Trichloronate	0.11	U	0.11	0.96

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	109	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2134
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F23.d
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.31	U	0.31	0.95
Bolstar	0.090	U	0.090	0.95
Chlorpyrifos	0.10	U	0.10	0.95
Coumaphos	0.077	U	0.077	0.95
Demeton-O	0.10	U	0.10	2.4
Diazinon	0.10	U	0.10	0.95
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.30	U	0.30	1.9
Disulfoton	0.11	U	0.11	1.9
EPN	0.068	U	0.068	0.95
Ethion	0.10	U	0.10	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.076	U	0.076	0.95
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.95
Merphos	0.12	U	0.12	0.95
Methyl parathion	0.11	U	0.11	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.5
Naled	0.34	U	0.34	4.8
Phorate	0.15	U	0.15	0.95
Ronnel	0.12	U	0.12	0.95
Stirophos	0.080	U	0.080	0.95
Sulfotepp	0.052	U	0.052	0.48
Tokuthion	0.083	U	0.083	0.95
Trichloronate	0.10	U	0.10	0.95

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	99	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2148
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F24.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.96
Bolstar	0.091	U	0.091	0.96
Chlorpyrifos	0.11	U	0.11	0.96
Coumaphos	0.078	U	0.078	0.96
Demeton-O	0.11	U	0.11	2.4
Diazinon	0.11	U	0.11	0.96
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.31	U	0.31	1.9
Disulfoton	0.12	U	0.12	1.9
EPN	0.068	U	0.068	0.96
Ethion	0.11	U	0.11	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.077	U	0.077	0.96
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.96
Merphos	0.12	U	0.12	0.96
Methyl parathion	0.12	U	0.12	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.6
Naled	0.35	U	0.35	4.8
Phorate	0.15	U	0.15	0.96
Ronnel	0.12	U	0.12	0.96
Stirophos	0.081	U	0.081	0.96
Sulfotepp	0.053	U	0.053	0.48
Tokuthion	0.084	U	0.084	0.96
Trichloronate	0.11	U	0.11	0.96

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	101	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2202
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F25.d
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.98
Bolstar	0.093	U	0.093	0.98
Chlorpyrifos	0.11	U	0.11	0.98
Coumaphos	0.079	U	0.079	0.98
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U	0.11	0.98
Dichlorvos	0.25	U	0.25	2.0
Dimethoate	0.31	U	0.31	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.070	U	0.070	0.98
Ethion	0.11	U	0.11	0.49
Ethoprop	0.40	U	0.40	0.49
Ethyl Parathion	0.078	U	0.078	0.98
Fensulfothion	0.17	U	0.17	4.9
Malathion	0.090	U	0.090	0.98
Merphos	0.13	U	0.13	0.98
Methyl parathion	0.12	U	0.12	0.49
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.5	U	2.5	9.8
Naled	0.35	U	0.35	4.9
Phorate	0.16	U	0.16	0.98
Ronnel	0.13	U	0.13	0.98
Stirophos	0.082	U	0.082	0.98
Sulfotepp	0.054	U	0.054	0.49
Tokuthion	0.085	U	0.085	0.98
Trichloronate	0.11	U	0.11	0.98

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	100	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2215
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F26.d
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.98
Bolstar	0.093	U	0.093	0.98
Chlorpyrifos	0.11	U	0.11	0.98
Coumaphos	0.079	U	0.079	0.98
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U	0.11	0.98
Dichlorvos	0.25	U	0.25	2.0
Dimethoate	0.31	U	0.31	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.070	U	0.070	0.98
Ethion	0.11	U	0.11	0.49
Ethoprop	0.40	U	0.40	0.49
Ethyl Parathion	0.078	U	0.078	0.98
Fensulfothion	0.17	U	0.17	4.9
Malathion	0.090	U	0.090	0.98
Merphos	0.13	U	0.13	0.98
Methyl parathion	0.12	U	0.12	0.49
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.5	U	2.5	9.8
Naled	0.35	U	0.35	4.9
Phorate	0.16	U	0.16	0.98
Ronnel	0.13	U	0.13	0.98
Stirophos	0.082	U	0.082	0.98
Sulfotepp	0.054	U	0.054	0.49
Tokuthion	0.085	U	0.085	0.98
Trichloronate	0.11	U	0.11	0.98

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	102	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2229
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F27.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.96
Bolstar	0.091	U	0.091	0.96
Chlorpyrifos	0.11	U	0.11	0.96
Coumaphos	0.078	U	0.078	0.96
Demeton-O	0.11	U	0.11	2.4
Diazinon	0.11	U	0.11	0.96
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.31	U	0.31	1.9
Disulfoton	0.12	U	0.12	1.9
EPN	0.068	U	0.068	0.96
Ethion	0.11	U	0.11	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.077	U	0.077	0.96
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.96
Merphos	0.12	U	0.12	0.96
Methyl parathion	0.12	U	0.12	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.6
Naled	0.35	U	0.35	4.8
Phorate	0.15	U	0.15	0.96
Ronnel	0.12	U	0.12	0.96
Stirophos	0.081	U	0.081	0.96
Sulfotepp	0.053	U	0.053	0.48
Tokuthion	0.084	U	0.084	0.96
Trichloronate	0.11	U	0.11	0.96

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	99	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2243
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F28.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.31	U	0.31	0.94
Bolstar	0.090	U	0.090	0.94
Chlorpyrifos	0.10	U	0.10	0.94
Coumaphos	0.076	U	0.076	0.94
Demeton-O	0.10	U	0.10	2.4
Diazinon	0.10	U	0.10	0.94
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.30	U	0.30	1.9
Disulfoton	0.11	U	0.11	1.9
EPN	0.067	U	0.067	0.94
Ethion	0.10	U	0.10	0.47
Ethoprop	0.39	U	0.39	0.47
Ethyl Parathion	0.075	U	0.075	0.94
Fensulfothion	0.16	U	0.16	4.7
Malathion	0.087	U	0.087	0.94
Merphos	0.12	U	0.12	0.94
Methyl parathion	0.11	U	0.11	0.47
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.4
Naled	0.34	U	0.34	4.7
Phorate	0.15	U	0.15	0.94
Ronnel	0.12	U	0.12	0.94
Stirophos	0.079	U	0.079	0.94
Sulfotepp	0.052	U	0.052	0.47
Tokuthion	0.082	U	0.082	0.94
Trichloronate	0.10	U	0.10	0.94

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	51	37 - 139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0018
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J047.D
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.94	U	0.94	4.7
2,4-D	0.94	U	0.94	4.7
2,4-DB	0.94	U	0.94	4.7
Dalapon	24	U	24	110
Dicamba	0.24	U	0.24	1.1
Dichlorprop	0.94	U	0.94	5.7
Dinoseb	0.94	U	0.94	5.7
MCPA	32	U	32	110
MCPP	33	U	33	110
Pentachlorophenol	0.080	U	0.080	0.94
Picloram	0.94	U	0.94	4.7
Silvex (2,4,5-TP)	0.94	U	0.94	4.7

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	47	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: **MW-108**

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0034
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J048.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	1.0	U	1.0	5.0
2,4-D	1.0	U	1.0	5.0
2,4-DB	1.0	U	1.0	5.0
Dalapon	25	U	25	120
Dicamba	0.25	U	0.25	1.2
Dichlorprop	1.0	U	1.0	6.0
Dinoseb	1.0	U	1.0	6.0
MCPA	34	U	34	120
MCPP	35	U	35	120
Pentachlorophenol	0.085	U	0.085	1.0
Picloram	1.0	U	1.0	5.0
Silvex (2,4,5-TP)	1.0	U	1.0	5.0

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	82	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0050
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J049.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.96	U	0.96	4.8
2,4-D	0.96	U	0.96	4.8
2,4-DB	0.96	U	0.96	4.8
Dalapon	24	U	24	120
Dicamba	0.24	U	0.24	1.2
Dichlorprop	0.96	U	0.96	5.8
Dinoseb	0.96	U	0.96	5.8
MCPA	33	U	33	120
MCPP	34	U	34	120
Pentachlorophenol	0.082	U	0.082	0.96
Picloram	0.96	U	0.96	4.8
Silvex (2,4,5-TP)	0.96	U	0.96	4.8

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	48	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0106
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J050.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.98	U	0.98	4.9
2,4-D	0.98	U	0.98	4.9
2,4-DB	0.98	U	0.98	4.9
Dalapon	25	U	25	120
Dicamba	0.25	U	0.25	1.2
Dichlorprop	0.98	U	0.98	5.9
Dinoseb	0.98	U	0.98	5.9
MCPA	33	U	33	120
MCPP	34	U	34	120
Pentachlorophenol	0.083	U	0.083	0.98
Picloram	0.98	U	0.98	4.9
Silvex (2,4,5-TP)	0.98	U	0.98	4.9

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	79	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0121
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J051.D
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.94	U	0.94	4.7
2,4-D	0.94	U	0.94	4.7
2,4-DB	0.94	U	0.94	4.7
Dalapon	24	U	24	110
Dicamba	0.24	U	0.24	1.1
Dichlorprop	0.94	U	0.94	5.7
Dinoseb	0.94	U	0.94	5.7
MCPA	32	U	32	110
MCPP	33	U	33	110
Pentachlorophenol	0.080	U	0.080	0.94
Picloram	0.94	U	0.94	4.7
Silvex (2,4,5-TP)	0.94	U	0.94	4.7

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	48	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0137
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J052.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	1.0	U	1.0	5.0
2,4-D	1.0	U	1.0	5.0
2,4-DB	1.0	U	1.0	5.0
Dalapon	25	U	25	120
Dicamba	0.25	U	0.25	1.2
Dichlorprop	1.0	U	1.0	6.0
Dinoseb	1.0	U	1.0	6.0
MCPA	34	U	34	120
MCPP	35	U	35	120
Pentachlorophenol	0.085	U	0.085	1.0
Picloram	1.0	U	1.0	5.0
Silvex (2,4,5-TP)	1.0	U	1.0	5.0

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	47	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0153
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J053.D
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	1.1	U	1.1	5.3
2,4-D	1.1	U	1.1	5.3
2,4-DB	1.1	U	1.1	5.3
Dalapon	26	U	26	130
Dicamba	0.26	U	0.26	1.3
Dichlorprop	1.1	U	1.1	6.3
Dinoseb	1.1	U	1.1	6.3
MCPA	36	U	36	130
MCPP	37	U	37	130
Pentachlorophenol	0.089	U	0.089	1.1
Picloram	1.1	U	1.1	5.3
Silvex (2,4,5-TP)	1.1	U	1.1	5.3

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	49	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: **MW-128**

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0208
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J054.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.95	U	0.95	4.8
2,4-D	0.95	U	0.95	4.8
2,4-DB	0.95	U	0.95	4.8
Dalapon	24	U	24	110
Dicamba	0.24	U	0.24	1.1
Dichlorprop	0.95	U	0.95	5.7
Dinoseb	0.95	U	0.95	5.7
MCPA	32	U	32	110
MCPP	33	U	33	110
Pentachlorophenol	0.081	U	0.081	0.95
Picloram	0.95	U	0.95	4.8
Silvex (2,4,5-TP)	0.95	U	0.95	4.8

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	44	33 - 120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1604
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	14000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2351
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	24	I	15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	60000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.85	I	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	2800		12	100
Magnesium	29000		14	250
Manganese	34		0.95	5.0
Sodium	30000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.32	U	0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2240
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	1400		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2042
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	20	I	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	59000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.79	I	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	2700		12	100
Magnesium, Dissolved	28000		14	250
Manganese, Dissolved	34		0.95	5.0
Sodium, Dissolved	30000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.34	I	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 1931
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	1500		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1213
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.00010	I	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1220
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/24/2009 2351
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	270		16	16
Calcium hardness as calcium carbonate	150		6.0	6.0
Magnesium hardness as calcium carbonate	120		10	10

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1220
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	18000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2358
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	61		15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	43000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	1.0	I	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	970		12	100
Magnesium	20000		14	250
Manganese	24		0.95	5.0
Sodium	36000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.32	U	0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2247
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	1400		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2103
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	27	I	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	40000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.92	I	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	710		12	100
Magnesium, Dissolved	19000		14	250
Manganese, Dissolved	23		0.95	5.0
Sodium, Dissolved	33000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.32	U	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 1952
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	1400		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1222
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000080	I	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1229
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/24/2009 2358
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	190		16	16
Calcium hardness as calcium carbonate	110		6.0	6.0
Magnesium hardness as calcium carbonate	84		10	10

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1222
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	20000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 0004
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	22	I	15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	79000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.63	I	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	10000		12	100
Magnesium	23000		14	250
Manganese	94		0.95	5.0
Sodium	20000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.32	U	0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2253
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	1800		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2109
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	74000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.68	I	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	9000		12	100
Magnesium, Dissolved	21000		14	250
Manganese, Dissolved	88		0.95	5.0
Sodium, Dissolved	19000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.38	I	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 1958
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	1900		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1231
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1233
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/25/2009 0004
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	290		16	16
Calcium hardness as calcium carbonate	200		6.0	6.0
Magnesium hardness as calcium carbonate	94		10	10

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1225
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	11000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 0011
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	280		15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	36000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.60	U	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	8600		12	100
Magnesium	9900		14	250
Manganese	44		0.95	5.0
Sodium	42000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.68	I	0.32	1.0
Zinc	10	I	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2300
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	1400		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2116
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	240		15	50
Arsenic, Dissolved	0.31	I	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	32000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.60	U	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	7800		12	100
Magnesium, Dissolved	8700		14	250
Manganese, Dissolved	41		0.95	5.0
Sodium, Dissolved	39000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.56	I	0.32	1.0
Zinc, Dissolved	8.2	I	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2005
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	1500		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1235
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.00012	I	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1238
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/25/2009 0011
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	130		16	16
Calcium hardness as calcium carbonate	91		6.0	6.0
Magnesium hardness as calcium carbonate	41		10	10

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1227
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	24000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 0018
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	24	I	15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	82000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.87	I	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	45	I	12	100
Magnesium	41000		14	250
Manganese	21		0.95	5.0
Sodium	15000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.32	U	0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2307
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	1700		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2123
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	75000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.80	I	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	28	I	12	100
Magnesium, Dissolved	37000		14	250
Manganese, Dissolved	19		0.95	5.0
Sodium, Dissolved	13000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.32	U	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2012
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	1700		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1240
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.00012	I	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1242
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.00012	I	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/25/2009 0018
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	370		16	16
Calcium hardness as calcium carbonate	210		6.0	6.0
Magnesium hardness as calcium carbonate	170		10	10

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1230
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	24000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 0025
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	20	I	15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	94000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	1.0	I	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	86	I	12	100
Magnesium	44000		14	250
Manganese	18		0.95	5.0
Sodium	21000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.32	U	0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2314
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	1600		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2130
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	17	I	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	76000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.76	I	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	67	I	12	100
Magnesium, Dissolved	37000		14	250
Manganese, Dissolved	15		0.95	5.0
Sodium, Dissolved	17000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.32	U	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2018
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	1500		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1244
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1246
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/25/2009 0025
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	420		16	16
Calcium hardness as calcium carbonate	230		6.0	6.0
Magnesium hardness as calcium carbonate	180		10	10

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1233
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	7900		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 0045
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	180		15	50
Arsenic	14		0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	67000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.60	U	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	6200		12	100
Magnesium	22000		14	250
Manganese	15		0.95	5.0
Sodium	39000		90	250
Lead	0.15	U	0.15	1.5
Antimony	12		0.36	2.5
Selenium	0.72	I	0.60	2.5
Thallium	2.6		0.55	1.0
Nickel	6.0		0.32	1.0
Zinc	58		6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2334
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	5900		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2136
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	170		15	50
Arsenic, Dissolved	14		0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	66000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	1.2	I	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	5900		12	100
Magnesium, Dissolved	22000		14	250
Manganese, Dissolved	15		0.95	5.0
Sodium, Dissolved	38000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	12		0.36	2.5
Selenium, Dissolved	0.63	I	0.60	2.5
Thallium, Dissolved	2.6		0.55	1.0
Nickel, Dissolved	6.5		0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2025
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	6000		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1253
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1255
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000074	I	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/25/2009 0045
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	260		16	16
Calcium hardness as calcium carbonate	170		6.0	6.0
Magnesium hardness as calcium carbonate	91		10	10

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1235
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	22000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 0052
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	350		15	50
Arsenic	0.90	I	0.28	2.5
Beryllium	0.38	I	0.065	0.50
Calcium	35000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.69	I	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	32	I	12	100
Magnesium	2000		14	250
Manganese	0.95	U	0.95	5.0
Sodium	13000		90	250
Lead	0.21	I	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	2.4		0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2341
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium	4700		40	250

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 2143
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	320		15	50
Arsenic, Dissolved	0.77	I	0.28	2.5
Beryllium, Dissolved	0.080	I	0.065	0.50
Calcium, Dissolved	33000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.60	U	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	12	U	12	100
Magnesium, Dissolved	1400		14	250
Manganese, Dissolved	0.95	U	0.95	5.0
Sodium, Dissolved	12000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	1.9		0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/25/2009 2032
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Potassium, Dissolved	5000		40	250

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1257
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/20/2009 1259
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000098	I	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/25/2009 0052
Date Prepared: N/A

Analysis Batch: 680-135372

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	96		16	16
Calcium hardness as calcium carbonate	88		6.0	6.0
Magnesium hardness as calcium carbonate	10	U	10	10

General Chemistry

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.94	U	mg/L	0.94	4.7	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	360		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	8.4		mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0938				
Fluoride	0.44		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 1907				
Chloride	59		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 1812				
Sulfate	40		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 1812				
Cyanide	0.023		mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	0.24	J3	mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1019				
Chromium (hexavalent)	0.0014	U J3	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	12		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/21/2009 1033				
MBAS	0.11		mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	6.89	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

General Chemistry

Client Sample ID: MW-111

Lab Sample ID: 660-28254-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	620		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0925				
Alkalinity	200		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1253				
Bicarbonate Alkalinity as CaCO3	200		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1253				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1253				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1548				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.94	U	mg/L	0.94	4.7	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	310		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	1.8		mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0938				
Fluoride	0.31	J3	mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 1933				
Chloride	51		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 1838				
Sulfate	79		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 1838				
Cyanide	0.0088	I	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	0.24		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1023				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	9.2		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/21/2009 1046				
MBAS	0.86		mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	6.55	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

General Chemistry

Client Sample ID: MW-108

Lab Sample ID: 660-28254-2
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	520		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0927				
Alkalinity	98		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1303				
Bicarbonate Alkalinity as CaCO3	98		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1303				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1303				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1554				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.96	U	mg/L	0.96	4.8	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	350		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	16		mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0938				
Fluoride	0.42		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 2051				
Chloride	59		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 1955				
Sulfate	140		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 1955				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	0.11		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1024				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	2.4		mg/L	0.10	1.0	1.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/23/2009 0156				
MBAS	0.052	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	6.67	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

General Chemistry

Client Sample ID: MW-74

Lab Sample ID: 660-28254-3
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	600		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0928				
Alkalinity	69		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1309				
Bicarbonate Alkalinity as CaCO3	69		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1309				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1309				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1600				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.94	U	mg/L	0.94	4.7	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	280		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	5.4		mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0938				
Fluoride	0.56		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 2116				
Chloride	46		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2113				
Sulfate	130		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2113				
Cyanide	0.044		mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	0.11		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1025				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	3.3		mg/L	0.10	1.0	1.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/23/2009 0212				
MBAS	0.075	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	6.00	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

General Chemistry

Client Sample ID: MW-104

Lab Sample ID: 660-28254-4
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	440		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0930				
Alkalinity	4.3		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1314				
Bicarbonate Alkalinity as CaCO3	4.3		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1314				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1314				
Biochemical Oxygen Demand	11		mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1608				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	1.0	U	mg/L	1.0	5.0	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	410		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	0.60	I	mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0938				
Fluoride	0.40		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 2142				
Chloride	38		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2139				
Sulfate	77		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2139				
Cyanide	0.056		mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	0.16		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1027				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	4.0		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/21/2009 1125				
MBAS	0.075	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	8.07	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

General Chemistry

Client Sample ID: MW-82

Lab Sample ID: 660-28254-5
Client Matrix: Water

Date Sampled: 03/18/2009 1650
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	670		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0931				
Alkalinity	230		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1320				
Bicarbonate Alkalinity as CaCO3	230		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1320				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1320				
Biochemical Oxygen Demand	8.5		mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1617				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.98	U	mg/L	0.98	4.9	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	470		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	1.5		mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0939				
Fluoride	0.55		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 2208				
Chloride	58		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2205				
Sulfate	110		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2205				
Cyanide	0.025		mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	0.44		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1028				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	5.5		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/21/2009 1139				
MBAS	0.063	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	7.98	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

General Chemistry

Client Sample ID: MW-81

Lab Sample ID: 660-28254-6
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	750		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0933				
Alkalinity	210		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1326				
Bicarbonate Alkalinity as CaCO3	210		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1326				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1326				
Biochemical Oxygen Demand	7.8		mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1622				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.98	U	mg/L	0.98	4.9	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	490		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	0.80	I	mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0939				
Fluoride	0.36		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 2326				
Chloride	37		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2230				
Sulfate	290		mg/L	4.0	10	20	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2256				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	2.8		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1031				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U J3	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	3.1		mg/L	0.10	1.0	1.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/23/2009 0228				
MBAS	0.13		mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	5.75	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

General Chemistry

Client Sample ID: MW-42

Lab Sample ID: 660-28254-7
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	750		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0934				
Alkalinity	1.1		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1331				
Bicarbonate Alkalinity as CaCO3	1.1		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1331				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1331				
Biochemical Oxygen Demand	7.9		mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1626				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.94	U	mg/L	0.94	4.7	1.0	1664A
Anly Batch: 660-76561	Date Analyzed		03/20/2009 1428				
Prep Batch: 660-76519	Date Prepared:		03/20/2009 0941				
Total Dissolved Solids	180		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55014	Date Analyzed		03/24/2009 0942				
Total Suspended Solids	4.6		mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55011	Date Analyzed		03/24/2009 0939				
Fluoride	0.81		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/25/2009 2351				
Chloride	33		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2322				
Sulfate	43		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-76791	Date Analyzed		03/26/2009 2322				
Cyanide	0.0082	I J3	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76778	Date Analyzed		03/24/2009 1800				
Prep Batch: 660-76776	Date Prepared:		03/24/2009 0900				
Ammonia (as N)	0.77		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76549	Date Analyzed		03/20/2009 1033				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1000				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76460	Date Analyzed		03/19/2009 1315				
Total Organic Carbon	4.1		mg/L	0.10	1.0	1.0	SM 5310C
Anly Batch: 640-54971	Date Analyzed		03/23/2009 0243				
MBAS	0.10		mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 0700				

Analyte	Result	Qual	Units	Dil	Method
pH	11.7	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76444	Date Analyzed		03/18/2009 1710		

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

General Chemistry

Client Sample ID: MW-128

Lab Sample ID: 660-28254-8
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	670		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0936				
Alkalinity	110		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1352				
Bicarbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1352				
Carbonate Alkalinity as CaCO3	32		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1352				
Biochemical Oxygen Demand	8.7		mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76500	Date Analyzed		03/19/2009 1635				
Sulfide	1.6		mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.
GC/MS Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Section	Qualifier	Description
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	NBZ %Rec	PHL %Rec	FBP %Rec	TPH %Rec	TBP %Rec
660-28254-1	MW-111	50	51	48	45	31	58
660-28254-2	MW-108	43	44	42	43	31	59
660-28254-3	MW-74	48	51	40	52	51	75
660-28254-4	MW-104	40	44	35	45	27	63
660-28254-5	MW-82	54	58	51	52	41	76
660-28254-6	MW-81	45	44	43	42	32	56
660-28254-7	MW-42	40	48	36	45	31	63
660-28254-8	MW-128	44	45	42	44	30	59
MB 660-76565/1-A		64	64	53	62	72	82
LCS 660-76565/2-A		66	86	52	76	64	89
660-28276-F-7-A MS		53	64	45	57	25	66
660-28276-E-4-A DU		37	38	34	38	22	45

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	29-121
NBZ = Nitrobenzene-d5	34-130
PHL = Phenol-d5	25-128
FBP = 2-Fluorobiphenyl	36-124
TPH = Terphenyl-d14	14-148
TBP = 2,4,6-Tribromophenol	29-143

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Surrogate Recovery Report

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
660-28254-1	MW-111	76
660-28254-2	MW-108	65
660-28254-3	MW-74	86
660-28254-4	MW-104	71
660-28254-5	MW-82	72
660-28254-6	MW-81	61
660-28254-7	MW-42	97
660-28254-8	MW-128	74
MB 660-76752/1-A		95
LCS 660-76752/2-A		96
660-28324-I-7-A MS		65
660-28324-I-6-A DU		44

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	30-130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Surrogate Recovery Report

8081A Organochlorine Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec	TCX2 %Rec
660-28254-1	MW-111	56		71
660-28254-2	MW-108	65		62
660-28254-3	MW-74	48		76
660-28254-4	MW-104	59	88	
660-28254-5	MW-82	69	64	
660-28254-6	MW-81	80		91
660-28254-7	MW-42	38		89
660-28254-8	MW-128	69		69
MB 660-76594/1-A		82		45
LCS 660-76594/2-A		82	59	
660-28254-2 MS	MW-108 MS	60	59	
660-28254-1 DU	MW-111 DU	48		71

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	30-150
TCX = Tetrachloro-m-xylene	30-150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
660-28254-1	MW-111	58	61
660-28254-2	MW-108	17J1	57
660-28254-3	MW-74	43	64
660-28254-4	MW-104	46	55
660-28254-5	MW-82	77	63
660-28254-6	MW-81	61	69
660-28254-7	MW-42	27J1	60
660-28254-8	MW-128	74	66
MB 660-76594/15-A		83	39
LCS 660-76594/16-A		82	57
660-28254-4 MS	MW-104 MS	44	52
660-28285-G-1-A DU		52	62

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	30-150
TCX = Tetrachloro-m-xylene	30-150

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Surrogate Recovery Report

8151A Herbicides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
660-28254-1	MW-111	47	
660-28254-2	MW-108		82
660-28254-3	MW-74	48	
660-28254-4	MW-104		79
660-28254-5	MW-82	48	
660-28254-6	MW-81	47	
660-28254-7	MW-42	49	
660-28254-8	MW-128	44	
MB 660-76768/1-A			70
LCS 660-76768/2-A		96	
LCSD 660-76768/3-A		91	

Surrogate	Acceptance Limits
DCPA = 2,4-Dichlorophenylacetic acid	33-120

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Surrogate Recovery Report

524.2 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
660-28254-1	MW-111	89	93
660-28254-2	MW-108	85	94
660-28254-3	MW-74	90	95
660-28254-4	MW-104	91	95
660-28254-5	MW-82	86	91
660-28254-6	MW-81	88	91
660-28254-7	MW-42	88	94
660-28254-8	MW-128	85	91
MB 680-133302/25		88	95
LCS 680-133302/23		102	101
LCSD 680-133302/24		99	96

Surrogate	Acceptance Limits
12DCB = 1,2-Dichlorobenzene-d4	70-130
BFB = 4-Bromofluorobenzene	70-130

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Surrogate Recovery Report

8141A Organophosphorous Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TPP1 %Rec	TPP2 %Rec
660-28254-1	MW-111	114	
660-28254-2	MW-108	109	
660-28254-3	MW-74	99	
660-28254-4	MW-104	101	
660-28254-5	MW-82	100	
660-28254-6	MW-81		102
660-28254-7	MW-42	99	
660-28254-8	MW-128	51	
MB 640-54931/1-A		102	
LCS 640-54931/2-A			101
LCSD 640-54931/3-A			114
660-28254-1 MS	MW-111 MS		88
660-28254-1 MSD	MW-111 MSD		111

Surrogate	Acceptance Limits
TPP = Triphenylphosphate (TPP)	37-139

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 680-133302

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-133302/25
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1054
Date Prepared: N/A

Analysis Batch: 680-133302
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq114.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	88	70 - 130
4-Bromofluorobenzene	95	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-133302

Method: 524.2
Preparation: N/A

LCS Lab Sample ID: LCS 680-133302/23
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0936
Date Prepared: N/A

Analysis Batch: 680-133302
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq111.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-133302/24
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0955
Date Prepared: N/A

Analysis Batch: 680-133302
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq112.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzene	95	95	70 - 130	0	30		
Bromoform	99	97	70 - 130	2	30		
Chloroform	100	100	70 - 130	0	30		
Dichlorobromomethane	111	110	70 - 130	1	30		
Chlorodibromomethane	125	123	70 - 130	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	102	99	70 - 130
4-Bromofluorobenzene	101	96	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-133302

Method: 524.2
Preparation: N/A

LCS Lab Sample ID: LCS 680-133302/23
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0936
Date Prepared: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 680-133302/24
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0955
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	20.0	20.0	19.0	19.0
Bromoform	20.0	20.0	19.7	19.4
Chloroform	20.0	20.0	20.0	20.1
Dichlorobromomethane	20.0	20.0	22.1	22.0
Chlorodibromomethane	20.0	20.0	25.1	24.7

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76565

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 660-76565/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1216
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC23017.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	PQL
Phenol	2.4	U	2.4	4.0
Dimethyl phthalate	2.5	U	2.5	10
Diethyl phthalate	2.5	U	2.5	10
Di-n-butyl phthalate	2.5	U	2.5	10
Butyl benzyl phthalate	1.2	U	1.2	10
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	6.0
Di-n-octyl phthalate	2.5	U	2.5	10
2-Chlorophenol	2.1	U	2.1	10
2-Nitrophenol	1.2	U	1.2	10
2,4-Dimethylphenol	1.8	U	1.8	10
2,4-Dichlorophenol	1.8	U	1.8	10
2,4,6-Trichlorophenol	1.9	U	1.9	10
4-Chloro-3-methylphenol	1.7	U	1.7	10
2,4-Dinitrophenol	6.2	U	6.2	50
4,6-Dinitro-2-methylphenol	1.5	U	1.5	50
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.2	U	6.2	50
2-Methylphenol	2.3	U	2.3	10
2,4,5-Trichlorophenol	2.1	U	2.1	10
3 & 4 Methylphenol	2.4	U	2.4	10

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	64	29 - 121
Nitrobenzene-d5	64	34 - 130
Phenol-d5	53	25 - 128
2-Fluorobiphenyl	62	36 - 124
Terphenyl-d14	72	14 - 148
2,4,6-Tribromophenol	82	29 - 143

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike - Batch: 660-76565

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 660-76565/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1237
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC23018.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenol	102	56.9	56	33 - 122	
2-Chlorophenol	102	74.8	73	38 - 115	
4-Chloro-3-methylphenol	102	76.3	75	34 - 126	
Pentachlorophenol	102	96.6	94	19 - 148	
4-Nitrophenol	101	62.6	62	12 - 143	

Matrix Spike - Batch: 660-76565

Method: 8270C
Preparation: 3520C

Lab Sample ID: 660-28276-F-7-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1751
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC23031.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Phenol	2.3	U	98.5	44.2	45	33 - 122	
2-Chlorophenol	2.0	U	99.1	49.6	50	38 - 115	
4-Chloro-3-methylphenol	1.7	U	98.8	52.3	53	34 - 126	
Pentachlorophenol	1.5	U	99.4	72.0	72	19 - 148	
4-Nitrophenol	6.0	U	97.7	53.7	55	12 - 143	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Duplicate - Batch: 660-76565

Method: 8270C
Preparation: 3520C

Lab Sample ID: 660-28276-E-4-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1730
Date Prepared: 03/20/2009 1503

Analysis Batch: 660-76675
Prep Batch: 660-76565
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC23030.D
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Phenol	2.3	U	2.5	NC	36	U
Dimethyl phthalate	2.4	U	2.6	NC	31	U
Diethyl phthalate	2.4	U	2.6	NC	49	U
Di-n-butyl phthalate	2.4	U	2.6	NC	29	U
Butyl benzyl phthalate	1.1	U	1.2	NC	41	U
Bis(2-ethylhexyl) phthalate	1.2	U	1.4	NC	26	U
Di-n-octyl phthalate	2.4	U	2.6	NC	33	U
2-Chlorophenol	2.0	U	2.2	NC	34	U
2-Nitrophenol	1.1	U	1.2	NC	24	U
2,4-Dimethylphenol	1.7	U	1.9	NC	43	U
2,4-Dichlorophenol	1.7	U	1.9	NC	30	U
2,4,6-Trichlorophenol	1.8	U	2.0	NC	22	U
4-Chloro-3-methylphenol	1.6	U	1.8	NC	31	U
2,4-Dinitrophenol	5.8	U	6.5	NC	63	U
4,6-Dinitro-2-methylphenol	1.4	U	1.6	NC	33	U
Pentachlorophenol	1.4	U	1.6	NC	33	U
4-Nitrophenol	5.8	U	6.5	NC	44	U
2-Methylphenol	2.2	U	2.4	NC	33	U
2,4,5-Trichlorophenol	2.0	U	2.2	NC	28	U
3 & 4 Methylphenol	2.3	U	2.5	NC	27	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76752

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: MB 660-76752/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1102
Date Prepared: 03/25/2009 1146

Analysis Batch: 660-76895
Prep Batch: 660-76752
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC26005.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.50	U	0.50	2.0
1-Methylnaphthalene	0.50	U	0.50	2.0
Acenaphthylene	0.25	U	0.25	1.0
Acenaphthene	0.50	U	0.50	2.0
Fluorene	0.50	U	0.50	2.0
Phenanthrene	0.20	U	0.20	0.50
Anthracene	0.076	U	0.076	0.20
Fluoranthene	0.054	U	0.054	0.50
Pyrene	0.089	U	0.089	0.50
Benzo[a]anthracene	0.050	U	0.050	0.20
Chrysene	0.069	U	0.069	0.20
Benzo[b]fluoranthene	0.050	U	0.050	0.20
Benzo[k]fluoranthene	0.057	U	0.057	0.20
Benzo[a]pyrene	0.057	U	0.057	0.20
Indeno[1,2,3-cd]pyrene	0.050	U	0.050	0.20
Dibenz(a,h)anthracene	0.050	U	0.050	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	95	30 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike - Batch: 660-76752

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: LCS 660-76752/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1117
Date Prepared: 03/25/2009 1146

Analysis Batch: 660-76895
Prep Batch: 660-76752
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC26006.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Naphthalene	2.00	1.57	79	41 - 130	
Acenaphthene	2.00	1.73	87	36 - 121	
Fluorene	2.00	1.74	87	50 - 124	
Pyrene	2.00	1.99	99	31 - 139	
Chrysene	2.00	2.28	114	44 - 128	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	96	30 - 130

Matrix Spike - Batch: 660-76752

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: 660-28324-I-7-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1351
Date Prepared: 03/25/2009 1146

Analysis Batch: 660-76895
Prep Batch: 660-76752
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC26016.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Naphthalene	0.24	U	1.94	1.01	52	41 - 130	
Acenaphthene	0.48	U	1.94	1.08	56	36 - 121	
Fluorene	0.48	U	1.94	1.14	59	50 - 124	
Pyrene	0.085	U	1.94	1.26	65	31 - 139	
Chrysene	0.066	U	1.94	1.17	60	44 - 128	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Duplicate - Batch: 660-76752

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: 660-28324-I-6-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1319
Date Prepared: 03/25/2009 1146

Analysis Batch: 660-76895
Prep Batch: 660-76752
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC26014.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Naphthalene	0.24	U	0.24	NC	33	U
2-Methylnaphthalene	0.48	U	0.49	NC	30	U
1-Methylnaphthalene	0.48	U	0.49	NC	30	U
Acenaphthylene	0.24	U	0.24	NC	28	U
Acenaphthene	0.48	U	0.49	NC	35	U
Fluorene	0.48	U	0.49	NC	23	U
Phenanthrene	0.19	U	0.19	NC	20	U
Anthracene	0.073	U	0.074	NC	21	U
Fluoranthene	0.052	U	0.052	NC	24	U
Pyrene	0.086	U	0.086	NC	42	U
Benzo[a]anthracene	0.048	U	0.049	NC	34	U
Chrysene	0.066	U	0.067	NC	31	U
Benzo[b]fluoranthene	0.048	U	0.049	NC	32	U
Benzo[k]fluoranthene	0.055	U	0.055	NC	34	U
Benzo[a]pyrene	0.055	U	0.055	NC	24	U
Indeno[1,2,3-cd]pyrene	0.048	U	0.049	NC	38	U
Dibenz(a,h)anthracene	0.048	U	0.049	NC	35	U
Benzo[g,h,i]perylene	0.096	U	0.097	NC	39	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: MB 660-76594/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1222
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000015.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
4,4'-DDD	0.0041	U	0.0041	0.010
4,4'-DDE	0.0055	U	0.0055	0.010
4,4'-DDT	0.0032	U	0.0032	0.010
Aldrin	0.0018	U	0.0018	0.010
alpha-BHC	0.0028	U	0.0028	0.010
beta-BHC	0.0027	U	0.0027	0.010
Chlordane (technical)	0.057	U	0.057	0.50
delta-BHC	0.0028	U	0.0028	0.010
Dieldrin	0.0014	U	0.0014	0.010
Endosulfan I	0.0034	U	0.0034	0.010
Endosulfan II	0.0033	U	0.0033	0.010
Endosulfan sulfate	0.0030	U	0.0030	0.010
Endrin	0.0031	U	0.0031	0.010
Endrin aldehyde	0.0032	U	0.0032	0.010
Endrin ketone	0.0054	U	0.0054	0.10
gamma-BHC (Lindane)	0.0026	U	0.0026	0.010
Heptachlor	0.0031	U	0.0031	0.010
Heptachlor epoxide	0.0031	U	0.0031	0.010
Methoxychlor	0.0051	U	0.0051	0.010
Toxaphene	0.72	U	0.72	3.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	82	30 - 150
Tetrachloro-m-xylene	45	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: LCS 660-76594/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1236
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000016.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.502	0.483	96	37 - 150	
Aldrin	0.501	0.312	62	32 - 120	
Dieldrin	0.502	0.411	82	40 - 142	
Endrin	0.502	0.427	85	36 - 137	
gamma-BHC (Lindane)	0.501	0.420	84	24 - 118	
Heptachlor	0.502	0.382	76	34 - 114	

Matrix Spike - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28254-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1748
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J041.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.0031	U	0.487	0.408	84	37 - 150	
Aldrin	0.0018	U	0.486	0.314	65	32 - 120	
Dieldrin	0.0014	U	0.487	0.357	73	40 - 142	
Endrin	0.0030	U	0.487	0.381	78	36 - 137	
gamma-BHC (Lindane)	0.0025	U	0.487	0.354	73	24 - 118	
Heptachlor	0.0030	U	0.487	0.362	74	34 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Duplicate - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1303
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000018.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
4,4'-DDD	0.0039	U	0.0039	NC	39	U
4,4'-DDE	0.0052	U	0.0052	NC	18	U
4,4'-DDT	0.0030	U	0.0030	NC	27	U
Aldrin	0.0017	U	0.0017	NC	25	U
alpha-BHC	0.0027	U	0.0027	NC	30	U
beta-BHC	0.0025	U	0.0025	NC	35	U
Chlordane (technical)	0.054	U	0.054	NC	30	U
delta-BHC	0.0026	U	0.0026	NC	41	U
Dieldrin	0.0013	U	0.0013	NC	42	U
Endosulfan I	0.0032	U	0.0032	NC	24	U
Endosulfan II	0.0031	U	0.0031	NC	22	U
Endosulfan sulfate	0.0028	U	0.0028	NC	28	U
Endrin	0.0030	U	0.0030	NC	25	U
Endrin aldehyde	0.0030	U	0.0030	NC	34	U
Endrin ketone	0.0051	U	0.0051	NC	25	U
gamma-BHC (Lindane)	0.0025	U	0.0025	NC	26	U
Heptachlor	0.0029	U	0.0029	NC	26	U
Heptachlor epoxide	0.0030	U	0.0030	NC	31	U
Methoxychlor	0.0048	U	0.0048	NC	43	U
Toxaphene	0.68	U	0.68	NC	30	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 660-76594/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1157
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K014.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
PCB-1016	0.26	U	0.26	0.50
PCB-1221	0.15	U	0.15	0.50
PCB-1232	0.38	U	0.38	0.50
PCB-1242	0.077	U	0.077	0.50
PCB-1248	0.070	U	0.070	0.50
PCB-1254	0.12	U	0.12	0.50
PCB-1260	0.10	U	0.10	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	30 - 150
Tetrachloro-m-xylene	39	30 - 150

Lab Control Spike - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 660-76594/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1210
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K015.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	3.32	66	45 - 134	
PCB-1260	5.00	3.82	76	41 - 144	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28254-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1856
Date Prepared: 03/21/2009 1429

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K044.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	0.25	U	4.81	2.95	61	45 - 134	
PCB-1260	0.096	U	4.81	3.10	65	41 - 144	

Duplicate - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28285-G-1-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1237
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K017.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
PCB-1016	0.24	U	0.25	NC	34	U
PCB-1221	0.14	U	0.14	NC	110	U
PCB-1232	0.36	U	0.36	NC	86	U
PCB-1242	0.072	U	0.073	NC	74	U
PCB-1248	0.066	U	0.066	NC	30	U
PCB-1254	0.11	U	0.11	NC	39	U
PCB-1260	0.094	U	0.095	NC	34	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 640-54931

Method: 8141A
Preparation: 3520C

Lab Sample ID: MB 640-54931/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2053
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F20.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Guthion	0.33	U	0.33	1.0
Bolstar	0.095	U	0.095	1.0
Chlorpyrifos	0.11	U	0.11	1.0
Coumaphos	0.081	U	0.081	1.0
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U	0.11	1.0
Dichlorvos	0.26	U	0.26	2.0
Dimethoate	0.32	U	0.32	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.071	U	0.071	1.0
Ethion	0.11	U	0.11	0.50
Ethoprop	0.41	U	0.41	0.50
Ethyl Parathion	0.080	U	0.080	1.0
Fensulfothion	0.17	U	0.17	5.0
Malathion	0.092	U	0.092	1.0
Merphos	0.13	U	0.13	1.0
Methyl parathion	0.12	U	0.12	0.50
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.6	U	2.6	10
Naled	0.36	U	0.36	5.0
Phorate	0.16	U	0.16	1.0
Ronnel	0.13	U	0.13	1.0
Stirophos	0.084	U	0.084	1.0
Sulfotepp	0.055	U	0.055	0.50
Tokuthion	0.087	U	0.087	1.0
Trichloronate	0.11	U	0.11	1.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate (TPP)	102	37 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

LCS Lab Sample ID: LCS 640-54931/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1022
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 2C25F40.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 640-54931/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1036
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 2C25F41.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Diazinon	107	110	42 - 132	3	30		
Ethyl Parathion	96	103	49 - 134	7	30		
Methyl parathion	104	108	43 - 140	3	30		
Ronnel	88	95	38 - 124	8	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Triphenylphosphate (TPP)	101	114	37 - 139

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

LCS Lab Sample ID: LCS 640-54931/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1022
Date Prepared: 03/23/2009 1630

Units: ug/L

LCSD Lab Sample ID: LCSD 640-54931/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1036
Date Prepared: 03/23/2009 1630

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Diazinon	2.50	2.50	2.67	2.76
Ethyl Parathion	2.50	2.50	2.41	2.58
Methyl parathion	2.50	2.50	2.61	2.69
Ronnel	2.50	2.50	2.20	2.38

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	660-28254-1	Analysis Batch: 640-55086	Instrument ID: SGF Varian 3400
Client Matrix:	Water	Prep Batch: 640-54931	Lab File ID: 2C25F38.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	03/26/2009 0955		Final Weight/Volume: 2.5 mL
Date Prepared:	03/23/2009 1630		Injection Volume: 1 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	660-28254-1	Analysis Batch: 640-55086	Instrument ID: SGF Varian 3400
Client Matrix:	Water	Prep Batch: 640-54931	Lab File ID: 2C25F39.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	03/26/2009 1008		Final Weight/Volume: 2.5 mL
Date Prepared:	03/23/2009 1630		Injection Volume: 1 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diazinon	79	111	24 - 129	34	30		J3
Ethyl Parathion	80	105	32 - 138	28	44		
Methyl parathion	84	112	32 - 137	29	48		
Ronnel	73	99	30 - 135	29	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Triphenylphosphate (TPP)	88	111	37 - 139

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	660-28254-1	Units: ug/L	MSD Lab Sample ID: 660-28254-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/26/2009 0955		Date Analyzed: 03/26/2009 1008
Date Prepared:	03/23/2009 1630		Date Prepared: 03/23/2009 1630

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Diazinon	0.11	U	2.50	2.50	1.97	2.78	J3
Ethyl Parathion	0.080	U	2.50	2.50	1.99	2.63	
Methyl parathion	0.12	U	2.50	2.50	2.10	2.80	
Ronnel	0.13	U	2.50	2.50	1.83	2.47	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76768

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 660-76768/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 2332
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J044.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
2,4,5-T	1.0	U	1.0	5.0
2,4-D	1.0	U	1.0	5.0
2,4-DB	1.0	U	1.0	5.0
Dalapon	25	U	25	120
Dicamba	0.25	U	0.25	1.2
Dichlorprop	1.0	U	1.0	6.0
Dinoseb	1.0	U	1.0	6.0
MCPA	34	U	34	120
MCPP	35	U	35	120
Pentachlorophenol	0.085	U	0.085	1.0
Picloram	1.0	U	1.0	5.0
Silvex (2,4,5-TP)	1.0	U	1.0	5.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	70	33 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-76768

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 660-76768/2-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/26/2009 2347
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J045.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 660-76768/3-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/27/2009 0003
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J046.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
2,4,5-T	100	91	15 - 155	10	48		
2,4-D	90	83	10 - 166	8	78		
Silvex (2,4,5-TP)	83	74	25 - 139	11	66		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 660-76768

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 660-76768/2-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/26/2009 2347
Date Prepared: 03/25/2009 1448

Units: ug/L

LCSD Lab Sample ID: LCSD 660-76768/3-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/27/2009 0003
Date Prepared: 03/25/2009 1448

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2,4,5-T	10.0	10.0	10.0	9.08
2,4-D	10.0	10.0	8.97	8.27
Silvex (2,4,5-TP)	10.0	10.0	8.25	7.38

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

Lab Sample ID: MB 680-133471/23-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1212
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result	Qual	MDL	PQL
SiO2, Silica	100	U	100	500

Lab Control Spike - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

Lab Sample ID: LCS 680-133471/24-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1214
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
SiO2, Silica	10000	9690	97	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

MS Lab Sample ID: 660-28233-D-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1325
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

MSD Lab Sample ID: 660-28233-D-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1328
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
SiO2, Silica	66	67	75 - 125	0	20	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

MS Lab Sample ID: 660-28233-D-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1325
Date Prepared: N/A

Units: ug/L

MSD Lab Sample ID: 660-28233-D-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1328
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
SiO2, Silica	49000	10000	10000	55400	J3	55500	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133353/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2203
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	15	U	15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	50	U	50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.60	U	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	12	U	12	100
Magnesium	14	U	14	250
Manganese	0.95	U	0.95	5.0
Sodium	90	U	90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.32	U	0.32	1.0
Zinc	6.5	U	6.5	20

Method Blank - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133353/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2052
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Potassium	40	U	40	250

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133353/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2210
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	48.5	97	75 - 125	
Aluminum	5000	4890	98	75 - 125	
Arsenic	100	101	101	75 - 125	
Beryllium	50.0	49.2	98	75 - 125	
Calcium	5000	5050	101	75 - 125	
Cadmium	50.0	47.3	95	75 - 125	
Chromium	100	95.0	95	75 - 125	
Copper	100	99.2	99	75 - 125	
Iron	5000	5120	102	75 - 125	
Magnesium	5000	5140	103	75 - 125	
Manganese	500	473	95	75 - 125	
Sodium	5000	4840	97	75 - 125	
Lead	50.0	44.4	89	75 - 125	
Antimony	50.0	47.0	94	75 - 125	
Selenium	100	96.6	97	75 - 125	
Thallium	40.0	36.7	92	75 - 125	
Nickel	100	98.5	98	75 - 125	
Zinc	100	95.1	95	75 - 125	

Lab Control Spike - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133353/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2059
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133684
Prep Batch: 680-133353
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Potassium	5000	4530	91	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 680-45623-C-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2243
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 680-45623-C-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2250
Date Prepared: 03/23/2009 1429

Analysis Batch: 680-133669
Prep Batch: 680-133353

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	107	107	75 - 125	0	20		
Aluminum	109	107	75 - 125	2	20		
Arsenic	109	109	75 - 125	0	20		
Beryllium	109	109	75 - 125	0	20		
Calcium	100	99	75 - 125	0	20		
Cadmium	107	105	75 - 125	1	20		
Chromium	104	104	75 - 125	1	20		
Copper	108	107	75 - 125	1	20		
Iron	99	101	75 - 125	2	20		
Magnesium	108	108	75 - 125	0	20		
Manganese	67	76	75 - 125	6	20	J3	
Sodium	108	109	75 - 125	0	20		
Lead	98	97	75 - 125	1	20		
Antimony	106	105	75 - 125	2	20		
Selenium	107	107	75 - 125	0	20		
Thallium	103	102	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-45623-C-1-B MS	Analysis Batch:	680-133684	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/25/2009 2132			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

MSD Lab Sample ID:	680-45623-C-1-C MSD	Analysis Batch:	680-133684	Instrument ID:	ICP MS - A
Client Matrix:	Water	Prep Batch:	680-133353	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	03/25/2009 2139			Final Weight/Volume:	250 mL
Date Prepared:	03/23/2009 1429				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Potassium	85	82	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 680-45623-C-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2243
Date Prepared: 03/23/2009 1429

Units: ug/L

MSD Lab Sample ID: 680-45623-C-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2250
Date Prepared: 03/23/2009 1429

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Silver	0.090	U	50.0	50.0	53.6		53.6
Aluminum	1100		5000	5000	6550		6450
Arsenic	0.75	I	100	100	110		109
Beryllium	0.20	I	50.0	50.0	54.6		54.7
Calcium	4500		5000	5000	9540		9520
Cadmium	0.15	I	50.0	50.0	53.5		52.8
Chromium	2.5	I	100	100	107		106
Copper	6.7		100	100	115		113
Iron	2100		5000	5000	7020		7140
Magnesium	2100		5000	5000	7500		7530
Manganese	350		500	500	686	J3	728
Sodium	4000		5000	5000	9460		9480
Lead	2.0		50.0	50.0	51.0		50.3
Antimony	0.36	U	50.0	50.0	53.1		52.3
Selenium	0.60	U	100	100	107		107
Thallium	0.55	U	40.0	40.0	41.3		40.8

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133353

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 680-45623-C-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2132
Date Prepared: 03/23/2009 1429

Units: ug/L

MSD Lab Sample ID: 680-45623-C-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2139
Date Prepared: 03/23/2009 1429

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Potassium	3800	5000	5000	8040	7900

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 680-133354

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133354/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1941
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	50	U	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.60	U	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	12	U	12	100
Magnesium, Dissolved	14	U	14	250
Manganese, Dissolved	0.95	U	0.95	5.0
Sodium, Dissolved	90	U	90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.32	U	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Method Blank - Batch: 680-133354

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133354/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1831
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Potassium, Dissolved	40	U	40	250

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike - Batch: 680-133354

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133354/13-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1948
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver, Dissolved	50.0	49.5	99	75 - 125	
Aluminum, Dissolved	5000	4800	96	75 - 125	
Arsenic, Dissolved	100	96.8	97	75 - 125	
Beryllium, Dissolved	50.0	49.2	98	75 - 125	
Calcium, Dissolved	5000	4890	98	75 - 125	
Cadmium, Dissolved	50.0	47.9	96	75 - 125	
Chromium, Dissolved	100	92.2	92	75 - 125	
Copper, Dissolved	100	97.3	97	75 - 125	
Iron, Dissolved	5000	4880	98	75 - 125	
Magnesium, Dissolved	5000	4940	99	75 - 125	
Manganese, Dissolved	500	479	96	75 - 125	
Sodium, Dissolved	5000	4690	94	75 - 125	
Lead, Dissolved	50.0	45.8	92	75 - 125	
Antimony, Dissolved	50.0	46.6	93	75 - 125	
Selenium, Dissolved	100	95.3	95	75 - 125	
Thallium, Dissolved	40.0	37.4	94	75 - 125	
Nickel, Dissolved	100	97.6	98	75 - 125	
Zinc, Dissolved	100	96.6	97	75 - 125	

Lab Control Spike - Batch: 680-133354

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133354/13-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1838
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133684
Prep Batch: 680-133354
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Potassium, Dissolved	5000	4630	93	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133354

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 640-21189-D-4-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2022
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 640-21189-D-4-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2029
Date Prepared: 03/23/2009 1435

Analysis Batch: 680-133669
Prep Batch: 680-133354

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver, Dissolved	98	99	75 - 125	1	20		
Aluminum, Dissolved	95	93	75 - 125	1	20		
Arsenic, Dissolved	100	97	75 - 125	2	20		
Beryllium, Dissolved	102	99	75 - 125	3	20		
Calcium, Dissolved	98	96	75 - 125	2	20		
Cadmium, Dissolved	97	97	75 - 125	0	20		
Chromium, Dissolved	95	92	75 - 125	3	20		
Copper, Dissolved	96	93	75 - 125	3	20		
Iron, Dissolved	99	97	75 - 125	1	20		
Magnesium, Dissolved	100	99	75 - 125	1	20		
Manganese, Dissolved	97	95	75 - 125	2	20		
Sodium, Dissolved	85	82	75 - 125	2	20		
Lead, Dissolved	92	91	75 - 125	1	20		
Antimony, Dissolved	98	97	75 - 125	1	20		
Selenium, Dissolved	95	93	75 - 125	2	20		
Thallium, Dissolved	94	94	75 - 125	0	20		
Nickel, Dissolved	98	96	75 - 125	2	20		
Zinc, Dissolved	101	99	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133354

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	640-21189-D-4-B MS	Analysis Batch: 680-133684	Instrument ID: ICP MS - A
Client Matrix:	Water	Prep Batch: 680-133354	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/25/2009 1911		Final Weight/Volume: 250 mL
Date Prepared:	03/23/2009 1435		

MSD Lab Sample ID:	640-21189-D-4-C MSD	Analysis Batch: 680-133684	Instrument ID: ICP MS - A
Client Matrix:	Water	Prep Batch: 680-133354	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/25/2009 1918		Final Weight/Volume: 250 mL
Date Prepared:	03/23/2009 1435		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Potassium, Dissolved	92	90	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133354

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 640-21189-D-4-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2022
Date Prepared: 03/23/2009 1435

Units: ug/L

MSD Lab Sample ID: 640-21189-D-4-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2029
Date Prepared: 03/23/2009 1435

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Silver, Dissolved	0.090	U	50.0	50.0	49.2	49.5
Aluminum, Dissolved	1700		5000	5000	6430	6340
Arsenic, Dissolved	0.58	I	100	100	100	98.0
Beryllium, Dissolved	0.065	U	50.0	50.0	50.8	49.4
Calcium, Dissolved	560		5000	5000	5460	5360
Cadmium, Dissolved	0.12	U	50.0	50.0	48.7	48.5
Chromium, Dissolved	1.3	I	100	100	96.5	93.6
Copper, Dissolved	3.8	I	100	100	100	97.0
Iron, Dissolved	1200		5000	5000	6160	6100
Magnesium, Dissolved	350		5000	5000	5340	5280
Manganese, Dissolved	2.5	I	500	500	489	479
Sodium, Dissolved	6100		5000	5000	10400	10200
Lead, Dissolved	0.15	U	50.0	50.0	46.2	45.6
Antimony, Dissolved	0.36	U	50.0	50.0	49.0	48.5
Selenium, Dissolved	0.60	U	100	100	94.6	93.0
Thallium, Dissolved	0.55	U	40.0	40.0	37.6	37.6
Nickel, Dissolved	1.8		100	100	99.9	98.0
Zinc, Dissolved	6.5	U	100	100	101	98.8

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133354

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 640-21189-D-4-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1911
Date Prepared: 03/23/2009 1435

Units: ug/L

MSD Lab Sample ID: 640-21189-D-4-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1918
Date Prepared: 03/23/2009 1435

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Potassium, Dissolved	200	I	5000	5000	4820	4710

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76514

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 660-76514/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1204
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020
Mercury, Dissolved	0.000072	U	0.000072	0.00020

Lab Control Spike - Batch: 660-76514

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 660-76514/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1206
Date Prepared: 03/20/2009 0837

Analysis Batch: 660-76564
Prep Batch: 660-76514
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.000997	100	80 - 120	
Mercury, Dissolved	0.00100	0.000997	100	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76514

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	660-28254-1	Analysis Batch: 660-76564	Instrument ID: Hg Analyzer
Client Matrix:	Water	Prep Batch: 660-76514	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	03/20/2009 1216		Final Weight/Volume: 25 mL
Date Prepared:	03/20/2009 0837		

MSD Lab Sample ID:	660-28254-1	Analysis Batch: 660-76564	Instrument ID: Hg Analyzer
Client Matrix:	Water	Prep Batch: 660-76514	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	03/20/2009 1218		Final Weight/Volume: 25 mL
Date Prepared:	03/20/2009 0837		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	89	111	80 - 120	20	20		
Mercury, Dissolved	89	111	80 - 120	20	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76514

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	660-28254-1	Units: mg/L	MSD Lab Sample ID: 660-28254-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/20/2009 1216		Date Analyzed: 03/20/2009 1218
Date Prepared:	03/20/2009 0837		Date Prepared: 03/20/2009 0837

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.00010	I	0.00100	0.00100	0.000989	0.00121
Mercury, Dissolved	0.00010	I	0.00100	0.00100	0.000989	0.00121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 680-135372

Method: SM 2340B
Preparation: N/A

Lab Sample ID: MB 680-135372/1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/24/2009 2203
Date Prepared: N/A

Analysis Batch: 680-135372
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	PQL	PQL
Hardness as calcium carbonate	16	U	16	16
Calcium hardness as calcium carbonate	6.0	U	6.0	6.0
Magnesium hardness as calcium carbonate	10	U	10	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: MB 660-76613/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0917
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Specific Conductance	5.0	U	5.0	5.0

Lab Control Spike - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: LCS 660-76613/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0919
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1000	989	99	90 - 110	

Duplicate - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: 660-28228-L-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0922
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	23000	23000	0.926		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76519

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 660-76519/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1428
Date Prepared: 03/20/2009 0941

Analysis Batch: 660-76561
Prep Batch: 660-76519
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	PQL
HEM (Oil and Grease)	1.0	U	1.0	5.0

Lab Control Spike - Batch: 660-76519

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 660-76519/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1428
Date Prepared: 03/20/2009 0941

Analysis Batch: 660-76561
Prep Batch: 660-76519
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	40.0	42.6	107	78 - 114	

Matrix Spike - Batch: 660-76519

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28254-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1428
Date Prepared: 03/20/2009 0941

Analysis Batch: 660-76561
Prep Batch: 660-76519
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	0.94	U	38.5	31.1	81	78 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Duplicate - Batch: 660-76519

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1428
Date Prepared: 03/20/2009 0941

Analysis Batch: 660-76561
Prep Batch: 660-76519
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
HEM (Oil and Grease)	0.94	U	0.94	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76791

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-76791/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1815
Date Prepared: N/A

Analysis Batch: 660-76791
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Chloride	0.20	U	0.20	0.50
Fluoride	0.020	U	0.020	0.050
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-76791

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-76791/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1841
Date Prepared: N/A

Analysis Batch: 660-76791
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	10.0	10.6	106	90 - 110	
Fluoride	1.00	1.10	110	90 - 110	
Sulfate	10.0	11.0	110	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76791

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28254-2	Analysis Batch:	660-76791	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/25/2009 1958			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28254-2	Analysis Batch:	660-76791	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/25/2009 2025			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Fluoride	109	113	90 - 110	3	30		J3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76791

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28254-2	Analysis Batch:	660-76791	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	8.0			Initial Weight/Volume:	
Date Analyzed:	03/26/2009 1904			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28254-2	Analysis Batch:	660-76791	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	8.0			Initial Weight/Volume:	
Date Analyzed:	03/26/2009 1929			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	99	96	90 - 110	1	30		
Sulfate	101	99	90 - 110	1	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76791

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28254-2
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/25/2009 1958
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28254-2
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/25/2009 2025
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Fluoride	0.25	I	1.00	1.00	1.34	1.38	J3

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76791

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28254-2
Client Matrix: Water
Dilution: 8.0
Date Analyzed: 03/26/2009 1904
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28254-2
Client Matrix: Water
Dilution: 8.0
Date Analyzed: 03/26/2009 1929
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	51	40.0	40.0	90.8	90.0
Sulfate	79	40.0	40.0	120	119

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76776

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: MB 660-76776/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1800
Date Prepared: 03/24/2009 0900

Analysis Batch: 660-76778
Prep Batch: 660-76776
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 6 mL
Final Weight/Volume: 6 mL

Analyte	Result	Qual	MDL	PQL
Cyanide	0.0062	U	0.0062	0.020

Lab Control Spike - Batch: 660-76776

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: LCS 660-76776/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1800
Date Prepared: 03/24/2009 0900

Analysis Batch: 660-76778
Prep Batch: 660-76776
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide	0.0500	0.0484	97	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76776

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID:	660-28254-7	Analysis Batch: 660-76778	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 660-76776	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/24/2009 1800		Final Weight/Volume: 100 mL
Date Prepared:	03/24/2009 0900		

MSD Lab Sample ID:	660-28254-7	Analysis Batch: 660-76778	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 660-76776	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/24/2009 1800		Final Weight/Volume: 100 mL
Date Prepared:	03/24/2009 0900		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide	99	99	90 - 110	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76776

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID:	660-28254-8	Analysis Batch: 660-76778	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 660-76776	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/24/2009 1800		Final Weight/Volume: 100 mL
Date Prepared:	03/24/2009 0900		

MSD Lab Sample ID:	660-28254-8	Analysis Batch: 660-76778	Instrument ID: No Equipment Assigned
Client Matrix:	Water	Prep Batch: 660-76776	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/24/2009 1800		Final Weight/Volume: 100 mL
Date Prepared:	03/24/2009 0900		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide	140	135	90 - 110	3	20	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76776

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID: 660-28254-7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1800
Date Prepared: 03/24/2009 0900

Units: mg/L

MSD Lab Sample ID: 660-28254-7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1800
Date Prepared: 03/24/2009 0900

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide	0.0062 U	0.0500	0.0500	0.0495	0.0496

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76776

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID: 660-28254-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1800
Date Prepared: 03/24/2009 0900

Units: mg/L

MSD Lab Sample ID: 660-28254-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1800
Date Prepared: 03/24/2009 0900

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide	0.0082 I	0.0500	0.0500	0.0783 J3	0.0759 J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76549

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 660-76549/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1017
Date Prepared: N/A

Analysis Batch: 660-76549
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	PQL
Ammonia (as N)	0.010	U	0.010	0.020

Lab Control Spike - Batch: 660-76549

Method: 350.1
Preparation: N/A

Lab Sample ID: LCS 660-76549/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1018
Date Prepared: N/A

Analysis Batch: 660-76549
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	0.500	0.498	100	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76549

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1020
Date Prepared: N/A

Analysis Batch: 660-76549
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1022
Date Prepared: N/A

Analysis Batch: 660-76549
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	82	83	90 - 110	1	30	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76549

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1020
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1022
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Ammonia (as N)	0.24	1.00	1.00	1.06	J3	1.07	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76460

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 660-76460/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 0949
Date Prepared: N/A

Analysis Batch: 660-76460
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Nitrate Nitrite as N	0.10	U	0.10	0.50
Nitrite as N	0.10	U	0.10	0.50

Lab Control Spike - Batch: 660-76460

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 660-76460/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 0949
Date Prepared: N/A

Analysis Batch: 660-76460
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	1.00	1.08	108	90 - 110	
Nitrite as N	1.00	0.905	90	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76460

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 660-28254-7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1315
Date Prepared: N/A

Analysis Batch: 660-76460
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28254-7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1315
Date Prepared: N/A

Analysis Batch: 660-76460
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrite as N	90	85	90 - 110	6	30		J3

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76460

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 660-28254-7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1315
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28254-7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1315
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Nitrite as N	0.10	U	1.00	1.00	0.904	0.848	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 660-76653/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1239
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Alkalinity	1.0	U	1.0	1.0
Bicarbonate Alkalinity as CaCO3	1.0	U	1.0	1.0
Carbonate Alkalinity as CaCO3	1.0	U	1.0	1.0

Lab Control Spike - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: LCS 660-76653/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1247
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	118	120	101	80 - 120	

Duplicate - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1258
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Alkalinity	200		194	0.791		
Bicarbonate Alkalinity as CaCO3	200		194	0.791		
Carbonate Alkalinity as CaCO3	1.0	U	1.0	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 640-55014

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55014/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0942
Date Prepared: N/A

Analysis Batch: 640-55014
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55014

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55014/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0942
Date Prepared: N/A

Analysis Batch: 640-55014
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55014/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0942
Date Prepared: N/A

Analysis Batch: 640-55014
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	94	96	80 - 120	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55014

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55014/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0942
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55014/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0942
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	282	288

Duplicate - Batch: 640-55014

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28314-A-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1420
Date Prepared: N/A

Analysis Batch: 640-55014
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	490	512	4	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 640-55011

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 640-55011/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0936
Date Prepared: N/A

Analysis Batch: 640-55011
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Suspended Solids	0.48	U	0.48	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55011

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 640-55011/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0936
Date Prepared: N/A

Analysis Batch: 640-55011
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55011/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0937
Date Prepared: N/A

Analysis Batch: 640-55011
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Suspended Solids	89	99	80 - 120	11	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55011

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 640-55011/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0936
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55011/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 0937
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Suspended Solids	100	100	89.0	99.0

Duplicate - Batch: 640-55011

Method: SM 2540D
Preparation: N/A

Lab Sample ID: 640-21200-A-2 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1341
Date Prepared: N/A

Analysis Batch: 640-55011
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 18 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	440	489	10	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

Lab Sample ID: MB 660-76488/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Analysis Batch: 660-76488
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Chromium (hexavalent)	0.0014	U	0.0014	0.010

Lab Control Spike - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

Lab Sample ID: LCS 660-76488/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Analysis Batch: 660-76488
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	0.200	0.180	90	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID:	660-28254-1	Analysis Batch:	660-76488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/19/2009 1000			Final Weight/Volume:	25 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28254-1	Analysis Batch:	660-76488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/19/2009 1000			Final Weight/Volume:	25 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium (hexavalent)	56	61	85 - 115	8	20	J3	J3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID:	660-28254-8	Analysis Batch:	660-76488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/19/2009 1000			Final Weight/Volume:	25 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28254-8	Analysis Batch:	660-76488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Date Analyzed:	03/19/2009 1000			Final Weight/Volume:	25 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium (hexavalent)	92	90	85 - 115	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28254-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chromium (hexavalent)	0.0014 U	0.200	0.200	0.113 J3	0.122 J3

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID: 660-28254-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28254-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chromium (hexavalent)	0.0014 U	0.200	0.200	0.184	0.180

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Lab Control Spike - Batch: 660-76444

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: LCS 660-76444/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2009 1410
Date Prepared: N/A

Analysis Batch: 660-76444
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.00	6.020	100	98 - 102	

Duplicate - Batch: 660-76444

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: 660-28254-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/18/2009 1710
Date Prepared: N/A

Analysis Batch: 660-76444
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.98	7.990	0		Q

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76587

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: MB 660-76587/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analysis Batch: 660-76587
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	PQL	PQL
Sulfide	1.0	U	1.0	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-76587

Method: SM 4500 S2 F
Preparation: N/A

LCS Lab Sample ID: LCS 660-76587/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analysis Batch: 660-76587
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

LCSD Lab Sample ID: LCSD 660-76587/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analysis Batch: 660-76587
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Sulfide	98	96	75 - 125	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 660-76587

Method: SM 4500 S2 F
Preparation: N/A

LCS Lab Sample ID: LCS 660-76587/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 660-76587/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sulfide	20.0	20.0	19.5	19.2

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Unseeded Control Blank - Batch: 660-76500

Method: SM 5210B
Preparation: N/A

Lab Sample ID: USB 660-76500/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1537
Date Prepared: N/A

Analysis Batch: 660-76500
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Result	Qual	PQL	PQL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Seeded Control Blank - Batch: 660-76500

Method: SM 5210B
Preparation: N/A

Lab Sample ID: SCB 660-76500/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1539
Date Prepared: N/A

Analysis Batch: 660-76500
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Result	Qual	PQL	PQL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Lab Control Spike - Batch: 660-76500

Method: SM 5210B
Preparation: N/A

Lab Sample ID: LCS 660-76500/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1542
Date Prepared: N/A

Analysis Batch: 660-76500
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	180	91	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Duplicate - Batch: 660-76500

Method: SM 5210B
Preparation: N/A

Lab Sample ID: 660-28254-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1649
Date Prepared: N/A

Analysis Batch: 660-76500
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Biochemical Oxygen Demand	8.5	10.4	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 640-54971

Method: SM 5310C
Preparation: N/A

Lab Sample ID: MB 640-54971/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0525
Date Prepared: N/A

Analysis Batch: 640-54971
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	PQL
Total Organic Carbon	0.10	U	0.10	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-54971

Method: SM 5310C
Preparation: N/A

LCS Lab Sample ID: LCS 640-54971/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0540
Date Prepared: N/A

Analysis Batch: 640-54971
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 640-54971/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0556
Date Prepared: N/A

Analysis Batch: 640-54971
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Organic Carbon	103	104	80 - 120	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-54971

Method: SM 5310C
Preparation: N/A

LCS Lab Sample ID: LCS 640-54971/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0540
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-54971/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0556
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon	10.0	10.0	10.3	10.4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-54971

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID: 660-28228-I-1 MS
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/21/2009 0921
Date Prepared: N/A

Analysis Batch: 640-54971
Prep Batch: N/A

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 660-28228-I-1 MSD
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/21/2009 0939
Date Prepared: N/A

Analysis Batch: 640-54971
Prep Batch: N/A

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon	68	69	80 - 120	1	25	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-54971

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID: 660-28228-I-1 MS
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/21/2009 0921
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28228-I-1 MSD
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/21/2009 0939
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Total Organic Carbon	13	20.0	20.0	26.4	J3	26.6	J3

Duplicate - Batch: 640-54971

Method: SM 5310C
Preparation: N/A

Lab Sample ID: 660-28228-I-1 DU
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/21/2009 0903
Date Prepared: N/A

Analysis Batch: 640-54971
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Organic Carbon	13	12.5	2	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Method Blank - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

Lab Sample ID: MB 660-76559/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	PQL
MBAS	0.050	U	0.050	0.10

Lab Control Spike - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

Lab Sample ID: LCS 660-76559/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
MBAS	0.500	0.454	91	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

MS Lab Sample ID: 660-28254-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 660-28254-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
MBAS	92	87	80 - 120	4	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28254-1
Sdg Number: 660-28254

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

MS Lab Sample ID: 660-28254-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Units: mg/l LAS MW 340

MSD Lab Sample ID: 660-28254-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
MBAS	0.075	I	0.500	0.500	0.535	0.512

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 06416

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS PAGE #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28254
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast-RAP Design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Bushwood Park Drive, Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 16

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	8141A NONE	2540C/D NONE	5310C SULF. ACID	SM4500_S2_F ZINC ACETATE NaOH	350.1 SULF. ACID	7470A NITR. ACID	8081A NONE	8082 NONE	8151A NONE	8270C NONE	REMARKS
3/18/09	1100	MW-111	G	X				2	2	1	1	1	1	2	2	2	2	
	1200	MW-108						2	2	1	1	1	1	2	2	2	2	
	1230	MW-74						2	2	1	1	1	1	2	2	2	2	
	1405	MW-104						2	2	1	1	1	1	2	2	2	2	
	1650	MW-82						2	2	1	1	1	1	2	2	2	2	
	1720	MW-81						2	2	1	1	1	1	2	2	2	2	
	1900	MW-42						2	2	1	1	1	1	2	2	2	2	
	1900	MW-128						2	2	1	1	1	1	2	2	2	2	

PRELIMINARY

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3-19-09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000	Amanda Hanson	3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	3/19/09	1115	YES ○ NO ○		660-28254	4.3°, 3.6°, 3.2°, 2.6°, 4.0°, 3.9°C; 4.5°, 4.3°, 3.7°, 2.8°, 3.1°C CU-07	660-28254

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 06420

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS PAGE #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 16

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/18/09	1100	MW-111	G	X				* 1 1 1 2 3 1 1 1 1	* Please ~~th~~ grab
	1200	MW-108						* 1 1 1 2 3 1 1 1 1	the sample for
	1230	MW-74						* 1 1 1 2 3 1 1 1 1	Dissolved Hg(7470A)
	1405	MW-104						* 1 1 1 2 3 1 1 1 1	analysis from the
	1650	MW-82						1 1 1 1 2 3 1 1 1 1	6020-Diss. Metals
	1720	MW-81						1 1 1 1 2 3 1 1 1 1	sample.
	1900	MW-42						* 1 1 1 2 3 1 1 1 1	
	1900	MW-128						* 1 1 1 2 3 1 1 1 1	

REQUIRED ANALYSIS	7470A (Diss. Hg)	5540C	5210B	335.4	1664A	524.2-Preserved	200.7-CWA	6020-Metals	6020-Diss. Metals	300.0-28D
	NITR. ACID	NONE	NONE	NaOH NONE	HCl	HCl	NONE	NITR. ACID	NITR. ACID	NONE

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3/19/09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000	Amanda Hamson	3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 6660-	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hamson	3/19/09	1115			28254	4.5°, 3.6°, 3.2°, 2.6°, 4.0°, 3.9°, 4.5°, 4.3°, 5.7°, 2.8°, 3.3°, CU07	6660-28254

TAL8240-660 (1207)

Page 190 of 195

R625-EDC-001214-0

Serial Number 06418

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS (24-hr hold samples)

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28254
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP Design	80038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Drive, Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ●
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 350.3_CR_B/232.02 / 300.0_28D/353.2 / SM4500_NH3/120.1	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/18/09	1100	MW-111	G	X					1	
	1200	MW-108							1	
	1230	MW-74							1	
	1405	MW-104							1	
	1900	MW-42							1	
	1900	MW-128							1	
	1650	MW-82							1	
	1720	MW-81							1	

NONE — PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	3/18/09	0900	Matthew D Sedor	3/18/09	1848			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Amanda Hanson	3/18/09	1848			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-18-09	1848	YES ○ NO ○		660-28254	3.1°C cw07	

660-28254

TAL8240-660 (1207)

Page 191 of 195

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28254 Logged in TALS By: Amanda Harrison

Cooler Received on (date) 3-19-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER (Lab) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: Cw-07 3.1°C, 4.3°C, 9.6°C, 3.2°C, 2.6°C, 4.0°C, 3.9°C, 4.5°C, 4.3°C, 3.7°C, 2.8°C Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: 16

All containers pH < 2 ? YES If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: 16

All containers pH < 2 ? YES If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 26

All containers pH < 2 ? YES If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: 16

All containers pH >12 ? CG 3-19-09 16 of 19 yes If not please comment below:

3-19-09 2) MW 108 PH=10 sulfide

1) MW-114 PH=10 ↓

8. Number of Unpreserved containers: 136

All containers pH between 6 and 8? 119 yes If not please comment below:

17) MW-128 PH=9

9. Was chlorine present in any of the unpreserved containers? ND

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28254-1
SDG Number: 660-28254

Login Number: 28254
Creator: Tafuni, Natalie
List Number: 1

List Source: TestAmerica Tampa

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	listed on info page
COC is present.	True	received all samples except for the hex chroms lt's on 03/19/09 @ 1115
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28254-1
SDG Number: 660-28254

Login Number: 28254
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/20/09 03:01 PM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28254-1
SDG Number: 660-28254

Login Number: 28254
Creator: Jones, Daniella
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/20/09 10:20 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

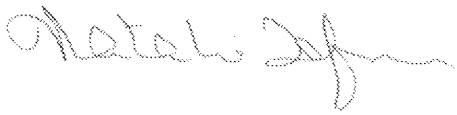
Job Number: 660-28285-1

SDG Number: 660-28285

Job Description: Tallevast - RAP Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/23/2009 2:04 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/23/2009
Revision: 1

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Savannah E87052
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Job Narrative
660-J28285-1

Comments
No additional comments. See below for revised report narrative.

Receipt
All samples were received in good condition within temperature requirements.

8270C
The sample duplicate %RPD for batch 660-76618 was outside of the control limits for fluoranthene. The data are flagged with J3 qualifiers. The sample duplicate %RPD for batch 660-76618 has a result of NC for most compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

The sample duplicate %RPD for batch 660-76626 was outside of the control limits for bis(2-ethyl hexyl) phthalate. The data are flagged with J3 qualifiers. The sample duplicate %RPD for batch 660-76626 has a result of NC for most compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

8081A/8082
The batch sample duplicate %RPD for batch 660-76594(job 660-28254) has a result of NC for all compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

The sample duplicate %RPD for batch 660-76627 has a result of NC for all compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

The recovery for TCMX tetrachloro-m-xylene surrogate is outside of control limits for the MB and LCS for batch 660-76627. The recovery for DCB decachlorobiphenyl surrogate is within control limits. The data are flagged with J1 qualifiers.

8141A
The batch matrix spike / matrix spike duplicate (MS/MSD) precision for batch 640-54931 was outside of control limits for diazinon. The associated laboratory control sample (LCS) met acceptance criteria. Sample 660-28254-A1 was used for the MS/MSD. The data are flagged with J3 qualifiers.

SM 3500 CR B
The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76488 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

SM 5210B
The seed correction factor was above the method range of 0.6 to 1.0. SCF =1.01. Results may be biased low.

The sample duplicate %RPD for batch 660-76554 has a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

1664A
The batch matrix spike (MS) recovery for batch 660-76663(job 660-28188) was outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

8151A
Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 660-76768.

The sample duplicate %RPD for batch 660-76598 has a result of NC for all compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

200.7
The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-133567(job 660-28233) were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

6020
The Method Blank for batch 680-134092 contains i values for As, Cr, Sb. The data are flagged with V qualifiers.

The Method Blank for batch 680-134094 contains i values for Ca, Cr, Sb. The data are flagged with V qualifiers.

The batch matrix spike recovery for batch 680-134094(job 680-45917) was outside of control limits for Mn. The associated laboratory control sample (LCS) and matrix spike duplicate (MSD) met acceptance criteria. The data are flagged with J3 qualifiers.

SM 4500 H+B
The samples were received outside of holding time for pH. The data are flagged with Q qualifiers.

1664A
The batch sample duplicate %RPD for batch 660-76612(job 660-28187) and batch 660-76746(job 660-28123) have a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

300.0
The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76981(job 660-28287) were outside of control limits for sulfate. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

SM 2320B
The batch sample duplicate %RPD for batch 660-76653(job 660-28254) has a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

This report was revised on 4-23-09: Per client request, hardness, nickel and zinc were added to the report.

6020
The Method Blank for batch 680-134092 contains an i value for Ni. The data are flagged with V qualifiers.

The Method Blank for batch 680-134094 contains an i value for Ni. The data are flagged with V qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28285-1	**MW-36**				
Chloroform	0.26	I	0.50	ug/L	524.2
Trihalomethanes, Total	0.26	I	0.50	ug/L	524.2
Hardness as calcium carbonate	190		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	110		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	80		10	mg/L	SM 2340B
Specific Conductance	570		5.0	umhos/cm	120.1
Chloride	45		2.0	mg/L	300.0
Fluoride	0.68		0.050	mg/L	300.0
Sulfate	170		5.0	mg/L	300.0
Ammonia (as N)	1.8		0.020	mg/L	350.1
Total Dissolved Solids	360		10	mg/L	SM 2540C
Total Suspended Solids	10		2.0	mg/L	SM 2540D
pH	5.63	Q		SU	SM 4500 H+ B
Total Organic Carbon	2.2		1.0	mg/L	SM 5310C
MBAS	0.052	I	0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	7600		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved	340		50	ug/L	6020
Arsenic, Dissolved	22		2.5	ug/L	6020
Calcium, Dissolved	49000	V	250	ug/L	6020
Cadmium, Dissolved	0.20	I	0.50	ug/L	6020
Chromium, Dissolved	1.2	I V	5.0	ug/L	6020
Iron, Dissolved	9500		100	ug/L	6020
Potassium, Dissolved	4800		250	ug/L	6020
Magnesium, Dissolved	21000		250	ug/L	6020
Manganese, Dissolved	16		5.0	ug/L	6020
Sodium, Dissolved	25000		250	ug/L	6020
Antimony, Dissolved	2.3	I V	2.5	ug/L	6020
Thallium, Dissolved	1.1		1.0	ug/L	6020
Nickel, Dissolved	9.7	V	1.0	ug/L	6020
Total Recoverable					
Aluminum	330		50	ug/L	6020
Arsenic	20	V	2.5	ug/L	6020
Calcium	46000		250	ug/L	6020
Cadmium	0.34	I	0.50	ug/L	6020
Chromium	1.1	I V	5.0	ug/L	6020
Copper	16		5.0	ug/L	6020
Iron	9000		100	ug/L	6020
Potassium	4600		250	ug/L	6020
Magnesium	19000		250	ug/L	6020
Manganese	15		5.0	ug/L	6020
Sodium	24000		250	ug/L	6020
Antimony	2.4	I V	2.5	ug/L	6020
Thallium	1.1		1.0	ug/L	6020
Nickel	8.9	V	1.0	ug/L	6020
Zinc	6.7	I	20	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28285-2	**MW-127**				
alpha-BHC	0.014		0.010	ug/L	8081A
beta-BHC	0.0049	I	0.010	ug/L	8081A
delta-BHC	0.029		0.010	ug/L	8081A
gamma-BHC (Lindane)	0.016		0.010	ug/L	8081A
Hardness as calcium carbonate	540		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	300		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	240		10	mg/L	SM 2340B
Specific Conductance	1100		5.0	umhos/cm	120.1
Chloride	73		2.5	mg/L	300.0
Fluoride	0.62		0.050	mg/L	300.0
Sulfate	250		10	mg/L	300.0
Ammonia (as N)	0.43		0.020	mg/L	350.1
Alkalinity	220		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	220		1.0	mg/L	SM 2320B
Total Dissolved Solids	760		10	mg/L	SM 2540C
Total Suspended Solids	0.70	I	1.0	mg/L	SM 2540D
pH	7.08	Q		SU	SM 4500 H+ B
Total Organic Carbon	4.4		4.0	mg/L	SM 5310C
Dissolved					
SiO2, Silica	38000		500	ug/L	200.7 Rev 4.4
Arsenic, Dissolved	0.39	I	2.5	ug/L	6020
Calcium, Dissolved	130000	V	250	ug/L	6020
Chromium, Dissolved	1.0	I V	5.0	ug/L	6020
Iron, Dissolved	19	I	100	ug/L	6020
Potassium, Dissolved	2300		250	ug/L	6020
Magnesium, Dissolved	60000		250	ug/L	6020
Manganese, Dissolved	1.1	I	5.0	ug/L	6020
Sodium, Dissolved	38000		250	ug/L	6020
Nickel, Dissolved	1.5	V	1.0	ug/L	6020
Total Recoverable					
Arsenic	0.85	I V	2.5	ug/L	6020
Calcium	120000		250	ug/L	6020
Chromium	1.5	I V	5.0	ug/L	6020
Iron	26	I	100	ug/L	6020
Potassium	2400		250	ug/L	6020
Magnesium	58000		250	ug/L	6020
Manganese	1.2	I	5.0	ug/L	6020
Sodium	36000		250	ug/L	6020
Nickel	2.1	V	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28285-3	**MW-77**				
Hardness as calcium carbonate	340		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	190		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	150		10	mg/L	SM 2340B
Specific Conductance	950		5.0	umhos/cm	120.1
Chloride	75		2.5	mg/L	300.0
Fluoride	0.40		0.050	mg/L	300.0
Sulfate	180		5.0	mg/L	300.0
Ammonia (as N)	0.34		0.020	mg/L	350.1
Alkalinity	190		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	190		1.0	mg/L	SM 2320B
Total Dissolved Solids	570		10	mg/L	SM 2540C
Total Suspended Solids	14		2.0	mg/L	SM 2540D
pH	6.68	Q		SU	SM 4500 H+ B
Total Organic Carbon	5.2		4.0	mg/L	SM 5310C
MBAS	0.081	I	0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	23000		500	ug/L	200.7 Rev 4.4
Arsenic, Dissolved	0.55	I	2.5	ug/L	6020
Calcium, Dissolved	85000	V	250	ug/L	6020
Chromium, Dissolved	1.4	I V	5.0	ug/L	6020
Iron, Dissolved	4700		100	ug/L	6020
Potassium, Dissolved	2100		250	ug/L	6020
Magnesium, Dissolved	41000		250	ug/L	6020
Manganese, Dissolved	95		5.0	ug/L	6020
Sodium, Dissolved	70000		250	ug/L	6020
Nickel, Dissolved	0.70	I V	1.0	ug/L	6020
Total Recoverable					
Arsenic	0.52	I V	2.5	ug/L	6020
Calcium	76000		250	ug/L	6020
Chromium	1.5	I V	5.0	ug/L	6020
Iron	4900		100	ug/L	6020
Potassium	2100		250	ug/L	6020
Magnesium	37000		250	ug/L	6020
Manganese	87		5.0	ug/L	6020
Sodium	66000		250	ug/L	6020
Nickel	0.77	I V	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28285-4	**MW-110**					
Hardness as calcium carbonate		270		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate		160		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate		110		10	mg/L	SM 2340B
Specific Conductance		730		5.0	umhos/cm	120.1
Chloride		85		2.5	mg/L	300.0
Fluoride		0.43		0.050	mg/L	300.0
Sulfate		72		2.5	mg/L	300.0
Ammonia (as N)		0.29		0.020	mg/L	350.1
Alkalinity		160		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		160		1.0	mg/L	SM 2320B
Total Dissolved Solids		430		10	mg/L	SM 2540C
Total Suspended Solids		14		2.0	mg/L	SM 2540D
pH		6.65	Q		SU	SM 4500 H+ B
Total Organic Carbon		4.2		4.0	mg/L	SM 5310C
MBAS		0.13		0.10	mg/l LAS	SM 5540C
Dissolved						
SiO2, Silica		17000		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved		17	I	50	ug/L	6020
Arsenic, Dissolved		1.3	I	2.5	ug/L	6020
Calcium, Dissolved		72000	V	250	ug/L	6020
Chromium, Dissolved		1.3	I V	5.0	ug/L	6020
Iron, Dissolved		5400		100	ug/L	6020
Potassium, Dissolved		1200		250	ug/L	6020
Magnesium, Dissolved		31000		250	ug/L	6020
Manganese, Dissolved		56		5.0	ug/L	6020
Sodium, Dissolved		38000		250	ug/L	6020
Nickel, Dissolved		0.69	I V	1.0	ug/L	6020
Total Recoverable						
Aluminum		22	I	50	ug/L	6020
Arsenic		1.3	I V	2.5	ug/L	6020
Calcium		64000		250	ug/L	6020
Chromium		1.3	I V	5.0	ug/L	6020
Iron		5500		100	ug/L	6020
Potassium		1100		250	ug/L	6020
Magnesium		27000		250	ug/L	6020
Manganese		52		5.0	ug/L	6020
Sodium		33000		250	ug/L	6020
Nickel		0.68	I V	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28285-5	**MW-37**				
Bis(2-ethylhexyl) phthalate	2.0	I J3	5.7	ug/L	8270C
Fluoranthene	0.16	I J3	0.47	ug/L	8270C LL
Pyrene	0.13	I	0.47	ug/L	8270C LL
Benzo[a]anthracene	0.056	I	0.19	ug/L	8270C LL
Chrysene	0.11	I	0.19	ug/L	8270C LL
Benzo[b]fluoranthene	0.088	I	0.19	ug/L	8270C LL
Benzo[a]pyrene	0.057	I	0.19	ug/L	8270C LL
Dieldrin	0.0083	I	0.0094	ug/L	8081A
Hardness as calcium carbonate	460		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	270		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	200		10	mg/L	SM 2340B
Specific Conductance	1000		5.0	umhos/cm	120.1
Chloride	61		2.5	mg/L	300.0
Fluoride	0.49		0.050	mg/L	300.0
Sulfate	260		10	mg/L	300.0
Ammonia (as N)	0.75		0.020	mg/L	350.1
Alkalinity	180		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	180		1.0	mg/L	SM 2320B
Total Dissolved Solids	700		10	mg/L	SM 2540C
Total Suspended Solids	23		2.0	mg/L	SM 2540D
pH	6.85	Q		SU	SM 4500 H+ B
Total Organic Carbon	5.1		4.0	mg/L	SM 5310C
Dissolved					
SiO2, Silica	23000		500	ug/L	200.7 Rev 4.4
Arsenic, Dissolved	4.2		2.5	ug/L	6020
Calcium, Dissolved	110000	V	250	ug/L	6020
Chromium, Dissolved	1.3	I V	5.0	ug/L	6020
Iron, Dissolved	5000		100	ug/L	6020
Potassium, Dissolved	3000		250	ug/L	6020
Magnesium, Dissolved	48000		250	ug/L	6020
Manganese, Dissolved	87		5.0	ug/L	6020
Sodium, Dissolved	46000		250	ug/L	6020
Nickel, Dissolved	4.3	V	1.0	ug/L	6020
Total Recoverable					
Arsenic	4.0	V	2.5	ug/L	6020
Calcium	110000		250	ug/L	6020
Chromium	1.4	I V	5.0	ug/L	6020
Iron	4900		100	ug/L	6020
Potassium	3000		250	ug/L	6020
Magnesium	47000		250	ug/L	6020
Manganese	86		5.0	ug/L	6020
Sodium	45000		250	ug/L	6020
Antimony	0.54	I V	2.5	ug/L	6020
Nickel	4.2	V	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28285-6	**MW-40**					
Hardness as calcium carbonate		110		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate		65		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate		42		10	mg/L	SM 2340B
Specific Conductance		580		5.0	umhos/cm	120.1
HEM (Oil and Grease)		1.5	I	4.8	mg/L	1664A
Chloride		32		2.0	mg/L	300.0
Fluoride		0.44		0.050	mg/L	300.0
Sulfate		180		5.0	mg/L	300.0
Ammonia (as N)		3.4		0.020	mg/L	350.1
Nitrate Nitrite as N		0.13	I	0.50	mg/L	353.2
Alkalinity		11		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		11		1.0	mg/L	SM 2320B
Total Dissolved Solids		350		10	mg/L	SM 2540C
Total Suspended Solids		13		2.5	mg/L	SM 2540D
pH		5.65	Q		SU	SM 4500 H+ B
Biochemical Oxygen Demand		2.4		2.0	mg/L	SM 5210B
Total Organic Carbon		3.4		1.0	mg/L	SM 5310C
Dissolved						
SiO2, Silica		9100		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved		200		50	ug/L	6020
Arsenic, Dissolved		4.8		2.5	ug/L	6020
Calcium, Dissolved		29000	V	250	ug/L	6020
Chromium, Dissolved		1.1	I V	5.0	ug/L	6020
Iron, Dissolved		30000		100	ug/L	6020
Potassium, Dissolved		5600		250	ug/L	6020
Magnesium, Dissolved		11000		250	ug/L	6020
Manganese, Dissolved		13		5.0	ug/L	6020
Sodium, Dissolved		47000		250	ug/L	6020
Nickel, Dissolved		1.6	V	1.0	ug/L	6020
Total Recoverable						
Aluminum		210		50	ug/L	6020
Arsenic		4.6	V	2.5	ug/L	6020
Calcium		26000		250	ug/L	6020
Chromium		1.0	I V	5.0	ug/L	6020
Iron		27000		100	ug/L	6020
Potassium		5100		250	ug/L	6020
Magnesium		10000		250	ug/L	6020
Manganese		12		5.0	ug/L	6020
Sodium		43000		250	ug/L	6020
Nickel		1.4	V	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28285-7	**MW-254**				
Hardness as calcium carbonate		240	16	mg/L	SM 2340B
Calcium hardness as calcium carbonate		140	6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate		100	10	mg/L	SM 2340B
Dissolved					
Iron, Dissolved		30000	100	ug/L	6020
Manganese, Dissolved		30	5.0	ug/L	6020
Total Recoverable					
Iron		32000	100	ug/L	6020
Manganese		29	5.0	ug/L	6020

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	EPA-DW 524.2	
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL TAM	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C
Organochlorine Pesticides (GC)	TAL TAM	SW846 8081A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL TAM		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL TAM	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL TAM		SW846 3510C
Organophosphorous Pesticides (GC)	TAL TAL	SW846 8141A	
Liquid-Liquid Extraction (Continuous)	TAL TAL		SW846 3520C
Herbicides (GC)	TAL TAM	SW846 8151A	
Extraction (Herbicides)	TAL TAM		SW846 8151A
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Sample Filtration	TAL SAV		FILTRATION
Metals (ICP/MS)	TAL SAV	SW846 6020	
Sample Filtration, Field	TAL SAV		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL TAM	SW846 7470A	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Mercury	TAL TAM		SW846 7470A
Total Hardness (as CaCO3) by calculation	TAL SAV	SM SM 2340B	
Conductivity, Specific Conductance	TAL TAM	MCAWW 120.1	
HEM and SGT-HEM	TAL TAM	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL TAM		1664A 1664A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Cyanide, Total	TAL TAM	MCAWW 335.4	
Distillation, Cyanide	TAL TAM		Distill/CN
Nitrogen, Ammonia	TAL TAM	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL TAM	MCAWW 353.2	
Alkalinity	TAL TAM	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL TAL	SM SM 2540D	
Chromium, Hexavalent	TAL TAM	SM SM 3500 CR B	
pH	TAL TAM	SM SM 4500 H+ B	
Sulfide, Total	TAL TAM	SM SM 4500 S2 F	

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Description	Lab Location	Method	Preparation Method
Matrix: Water			
BOD, 5-Day	TAL TAM	SM SM 5210B	
TOC	TAL TAL	SM SM 5310C	
Methylene Blue Active Substances (MBAS)	TAL TAM	SM SM 5540C	

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method	Analyst	Analyst ID
EPA-DW 524.2	Jakubsen, Melanie	MLJ
SW846 8270C	Campbell, Ed	EC
SW846 8270C LL	Perrin, Todd	TP
SW846 8081A	Perrin, Todd	TP
SW846 8082	Ballard, James	JB
SW846 8141A	Thomas, Martin L	MLT
SW846 8151A	Myers, Randy	RM
SW846 8151A	Perrin, Todd	TP
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
SW846 6020	Boyuk, Brian	BB
SW846 7470A	Canales, Richard	RC
SM SM 2340B	Boyuk, Brian	BB
MCAWW 120.1	Steward, Tiffany	TS
1664A 1664A	Oonnoonny, Thomas	TO
MCAWW 300.0	Petterson, Alyssa	AP
MCAWW 335.4	Mostafavifar, Efe	EM
MCAWW 350.1	Griffith, Kelly L	KLG
MCAWW 353.2	Steward, Tiffany	TS
SM SM 2320B	Steward, Tiffany	TS
SM SM 2540C	Wilkerson, Shelette	SW
SM SM 2540D	Wilkerson, Shelette	SW
SM SM 3500 CR B	Martin, Randolph	RM
SM SM 4500 H+ B	Mostafavifar, Efe	EM
SM SM 4500 S2 F	Mostafavifar, Efe	EM
SM SM 5210B	Sengsouvanna, Dom	DS
SM SM 5310C	Frank, Michelle	MF
SM SM 5540C	Cerome, Saurel	SC

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28285-1	MW-36	Water	03/19/2009 1100	03/20/2009 1100
660-28285-2	MW-127	Water	03/19/2009 1220	03/20/2009 1100
660-28285-3	MW-77	Water	03/19/2009 1230	03/20/2009 1100
660-28285-4	MW-110	Water	03/19/2009 1230	03/20/2009 1100
660-28285-5	MW-37	Water	03/19/2009 1630	03/20/2009 1100
660-28285-6	MW-40	Water	03/19/2009 1630	03/20/2009 1100
660-28285-7	MW-254	Water	03/19/2009 1650	03/20/2009 1100

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/23/2009 1740
Date Prepared: N/A

Analysis Batch: 680-133341

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1095.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.26	I	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.26	I	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	93	70 - 130
4-Bromofluorobenzene	100	70 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/23/2009 1800
Date Prepared: N/A

Analysis Batch: 680-133341

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1096.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	92	70 - 130
4-Bromofluorobenzene	99	70 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/23/2009 1820
Date Prepared: N/A

Analysis Batch: 680-133341

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1097.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	87	70 - 130
4-Bromofluorobenzene	93	70 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/23/2009 1840
Date Prepared: N/A

Analysis Batch: 680-133341

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1098.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	88	70 - 130
4-Bromofluorobenzene	92	70 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/23/2009 1859
Date Prepared: N/A

Analysis Batch: 680-133341

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1099.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	92	70 - 130
4-Bromofluorobenzene	98	70 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/23/2009 1919
Date Prepared: N/A

Analysis Batch: 680-133341

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1100.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	91	70 - 130
4-Bromofluorobenzene	94	70 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1717
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24018.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.3	U	2.3	9.4
Diethyl phthalate	2.3	U	2.3	9.4
Di-n-butyl phthalate	2.3	U	2.3	9.4
Butyl benzyl phthalate	1.1	U	1.1	9.4
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.6
Di-n-octyl phthalate	2.3	U	2.3	9.4
2-Chlorophenol	2.0	U	2.0	9.4
2-Nitrophenol	1.1	U	1.1	9.4
2,4-Dimethylphenol	1.7	U	1.7	9.4
2,4-Dichlorophenol	1.7	U	1.7	9.4
2,4,6-Trichlorophenol	1.8	U	1.8	9.4
4-Chloro-3-methylphenol	1.6	U	1.6	9.4
2,4-Dinitrophenol	5.8	U	5.8	47
4,6-Dinitro-2-methylphenol	1.4	U	1.4	47
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.8	U	5.8	47
2-Methylphenol	2.2	U	2.2	9.4
2,4,5-Trichlorophenol	2.0	U	2.0	9.4
3 & 4 Methylphenol	2.3	U	2.3	9.4

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	50	29 - 121
Nitrobenzene-d5	55	34 - 130
Phenol-d5	45	25 - 128
2-Fluorobiphenyl	49	36 - 124
Terphenyl-d14	53	14 - 148
2,4,6-Tribromophenol	70	29 - 143

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1738
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24019.D
Initial Weight/Volume: 1010 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.4	U	2.4	4.0
Dimethyl phthalate	2.5	U	2.5	9.9
Diethyl phthalate	2.5	U	2.5	9.9
Di-n-butyl phthalate	2.5	U	2.5	9.9
Butyl benzyl phthalate	1.2	U	1.2	9.9
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	5.9
Di-n-octyl phthalate	2.5	U	2.5	9.9
2-Chlorophenol	2.1	U	2.1	9.9
2-Nitrophenol	1.2	U	1.2	9.9
2,4-Dimethylphenol	1.8	U	1.8	9.9
2,4-Dichlorophenol	1.8	U	1.8	9.9
2,4,6-Trichlorophenol	1.9	U	1.9	9.9
4-Chloro-3-methylphenol	1.7	U	1.7	9.9
2,4-Dinitrophenol	6.1	U	6.1	50
4,6-Dinitro-2-methylphenol	1.5	U	1.5	50
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.1	U	6.1	50
2-Methylphenol	2.3	U	2.3	9.9
2,4,5-Trichlorophenol	2.1	U	2.1	9.9
3 & 4 Methylphenol	2.4	U	2.4	9.9

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	41	29 - 121
Nitrobenzene-d5	41	34 - 130
Phenol-d5	36	25 - 128
2-Fluorobiphenyl	39	36 - 124
Terphenyl-d14	28	14 - 148
2,4,6-Tribromophenol	52	29 - 143

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1759
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24020.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.5
Diethyl phthalate	2.4	U	2.4	9.5
Di-n-butyl phthalate	2.4	U	2.4	9.5
Butyl benzyl phthalate	1.1	U	1.1	9.5
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.7
Di-n-octyl phthalate	2.4	U	2.4	9.5
2-Chlorophenol	2.0	U	2.0	9.5
2-Nitrophenol	1.1	U	1.1	9.5
2,4-Dimethylphenol	1.7	U	1.7	9.5
2,4-Dichlorophenol	1.7	U	1.7	9.5
2,4,6-Trichlorophenol	1.8	U	1.8	9.5
4-Chloro-3-methylphenol	1.6	U	1.6	9.5
2,4-Dinitrophenol	5.9	U	5.9	48
4,6-Dinitro-2-methylphenol	1.4	U	1.4	48
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.9	U	5.9	48
2-Methylphenol	2.2	U	2.2	9.5
2,4,5-Trichlorophenol	2.0	U	2.0	9.5
3 & 4 Methylphenol	2.3	U	2.3	9.5

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	50	29 - 121
Nitrobenzene-d5	49	34 - 130
Phenol-d5	47	25 - 128
2-Fluorobiphenyl	45	36 - 124
Terphenyl-d14	36	14 - 148
2,4,6-Tribromophenol	63	29 - 143

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1820
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24021.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.5
Diethyl phthalate	2.4	U	2.4	9.5
Di-n-butyl phthalate	2.4	U	2.4	9.5
Butyl benzyl phthalate	1.1	U	1.1	9.5
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.7
Di-n-octyl phthalate	2.4	U	2.4	9.5
2-Chlorophenol	2.0	U	2.0	9.5
2-Nitrophenol	1.1	U	1.1	9.5
2,4-Dimethylphenol	1.7	U	1.7	9.5
2,4-Dichlorophenol	1.7	U	1.7	9.5
2,4,6-Trichlorophenol	1.8	U	1.8	9.5
4-Chloro-3-methylphenol	1.6	U	1.6	9.5
2,4-Dinitrophenol	5.9	U	5.9	48
4,6-Dinitro-2-methylphenol	1.4	U	1.4	48
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.9	U	5.9	48
2-Methylphenol	2.2	U	2.2	9.5
2,4,5-Trichlorophenol	2.0	U	2.0	9.5
3 & 4 Methylphenol	2.3	U	2.3	9.5

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	44	29 - 121
Nitrobenzene-d5	44	34 - 130
Phenol-d5	40	25 - 128
2-Fluorobiphenyl	43	36 - 124
Terphenyl-d14	25	14 - 148
2,4,6-Tribromophenol	56	29 - 143

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1841
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24022.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.5
Diethyl phthalate	2.4	U	2.4	9.5
Di-n-butyl phthalate	2.4	U	2.4	9.5
Butyl benzyl phthalate	1.1	U	1.1	9.5
Bis(2-ethylhexyl) phthalate	2.0	I J3	1.2	5.7
Di-n-octyl phthalate	2.4	U	2.4	9.5
2-Chlorophenol	2.0	U	2.0	9.5
2-Nitrophenol	1.1	U	1.1	9.5
2,4-Dimethylphenol	1.7	U	1.7	9.5
2,4-Dichlorophenol	1.7	U	1.7	9.5
2,4,6-Trichlorophenol	1.8	U	1.8	9.5
4-Chloro-3-methylphenol	1.6	U	1.6	9.5
2,4-Dinitrophenol	5.9	U	5.9	47
4,6-Dinitro-2-methylphenol	1.4	U	1.4	47
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.9	U	5.9	47
2-Methylphenol	2.2	U	2.2	9.5
2,4,5-Trichlorophenol	2.0	U	2.0	9.5
3 & 4 Methylphenol	2.3	U	2.3	9.5

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	35	29 - 121
Nitrobenzene-d5	35	34 - 130
Phenol-d5	32	25 - 128
2-Fluorobiphenyl	36	36 - 124
Terphenyl-d14	32	14 - 148
2,4,6-Tribromophenol	62	29 - 143

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1901
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24023.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.5
Diethyl phthalate	2.4	U	2.4	9.5
Di-n-butyl phthalate	2.4	U	2.4	9.5
Butyl benzyl phthalate	1.1	U	1.1	9.5
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.7
Di-n-octyl phthalate	2.4	U	2.4	9.5
2-Chlorophenol	2.0	U	2.0	9.5
2-Nitrophenol	1.1	U	1.1	9.5
2,4-Dimethylphenol	1.7	U	1.7	9.5
2,4-Dichlorophenol	1.7	U	1.7	9.5
2,4,6-Trichlorophenol	1.8	U	1.8	9.5
4-Chloro-3-methylphenol	1.6	U	1.6	9.5
2,4-Dinitrophenol	5.9	U	5.9	48
4,6-Dinitro-2-methylphenol	1.4	U	1.4	48
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.9	U	5.9	48
2-Methylphenol	2.2	U	2.2	9.5
2,4,5-Trichlorophenol	2.0	U	2.0	9.5
3 & 4 Methylphenol	2.3	U	2.3	9.5

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	43	29 - 121
Nitrobenzene-d5	47	34 - 130
Phenol-d5	39	25 - 128
2-Fluorobiphenyl	44	36 - 124
Terphenyl-d14	43	14 - 148
2,4,6-Tribromophenol	67	29 - 143

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1147
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25007.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.23	U	0.23	1.9
2-Methylnaphthalene	0.47	U	0.47	1.9
1-Methylnaphthalene	0.47	U	0.47	1.9
Acenaphthylene	0.23	U	0.23	0.94
Acenaphthene	0.47	U	0.47	1.9
Fluorene	0.47	U	0.47	1.9
Phenanthrene	0.19	U	0.19	0.47
Anthracene	0.071	U	0.071	0.19
Fluoranthene	0.051	U	0.051	0.47
Pyrene	0.084	U	0.084	0.47
Benzo[a]anthracene	0.047	U	0.047	0.19
Chrysene	0.065	U	0.065	0.19
Benzo[b]fluoranthene	0.047	U	0.047	0.19
Benzo[k]fluoranthene	0.054	U	0.054	0.19
Benzo[a]pyrene	0.054	U	0.054	0.19
Indeno[1,2,3-cd]pyrene	0.047	U	0.047	0.19
Dibenz(a,h)anthracene	0.047	U	0.047	0.19
Benzo[g,h,i]perylene	0.094	U	0.094	0.47

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	81	30 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: **MW-127**

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1203
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25008.D
Initial Weight/Volume: 990 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.51	U	0.51	2.0
1-Methylnaphthalene	0.51	U	0.51	2.0
Acenaphthylene	0.25	U	0.25	1.0
Acenaphthene	0.51	U	0.51	2.0
Fluorene	0.51	U	0.51	2.0
Phenanthrene	0.20	U	0.20	0.51
Anthracene	0.077	U	0.077	0.20
Fluoranthene	0.055	U	0.055	0.51
Pyrene	0.090	U	0.090	0.51
Benzo[a]anthracene	0.051	U	0.051	0.20
Chrysene	0.070	U	0.070	0.20
Benzo[b]fluoranthene	0.051	U	0.051	0.20
Benzo[k]fluoranthene	0.058	U	0.058	0.20
Benzo[a]pyrene	0.058	U	0.058	0.20
Indeno[1,2,3-cd]pyrene	0.051	U	0.051	0.20
Dibenz(a,h)anthracene	0.051	U	0.051	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.51

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	79	30 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1218
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25009.D
Initial Weight/Volume: 1010 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.50	U	0.50	2.0
1-Methylnaphthalene	0.50	U	0.50	2.0
Acenaphthylene	0.25	U	0.25	0.99
Acenaphthene	0.50	U	0.50	2.0
Fluorene	0.50	U	0.50	2.0
Phenanthrene	0.20	U	0.20	0.50
Anthracene	0.075	U	0.075	0.20
Fluoranthene	0.053	U	0.053	0.50
Pyrene	0.088	U	0.088	0.50
Benzo[a]anthracene	0.050	U	0.050	0.20
Chrysene	0.068	U	0.068	0.20
Benzo[b]fluoranthene	0.050	U	0.050	0.20
Benzo[k]fluoranthene	0.056	U	0.056	0.20
Benzo[a]pyrene	0.056	U	0.056	0.20
Indeno[1,2,3-cd]pyrene	0.050	U	0.050	0.20
Dibenz(a,h)anthracene	0.050	U	0.050	0.20
Benzo[g,h,i]perylene	0.099	U	0.099	0.50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	75	30 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1233
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25010.D
Initial Weight/Volume: 980 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.26	U	0.26	2.0
2-Methylnaphthalene	0.51	U	0.51	2.0
1-Methylnaphthalene	0.51	U	0.51	2.0
Acenaphthylene	0.26	U	0.26	1.0
Acenaphthene	0.51	U	0.51	2.0
Fluorene	0.51	U	0.51	2.0
Phenanthrene	0.20	U	0.20	0.51
Anthracene	0.078	U	0.078	0.20
Fluoranthene	0.055	U	0.055	0.51
Pyrene	0.091	U	0.091	0.51
Benzo[a]anthracene	0.051	U	0.051	0.20
Chrysene	0.070	U	0.070	0.20
Benzo[b]fluoranthene	0.051	U	0.051	0.20
Benzo[k]fluoranthene	0.058	U	0.058	0.20
Benzo[a]pyrene	0.058	U	0.058	0.20
Indeno[1,2,3-cd]pyrene	0.051	U	0.051	0.20
Dibenz(a,h)anthracene	0.051	U	0.051	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.51

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	90	30 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1248
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25011.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.24	U	0.24	1.9
2-Methylnaphthalene	0.47	U	0.47	1.9
1-Methylnaphthalene	0.47	U	0.47	1.9
Acenaphthylene	0.24	U	0.24	0.95
Acenaphthene	0.47	U	0.47	1.9
Fluorene	0.47	U	0.47	1.9
Phenanthrene	0.19	U	0.19	0.47
Anthracene	0.072	U	0.072	0.19
Fluoranthene	0.16	I J3	0.051	0.47
Pyrene	0.13	I	0.084	0.47
Benzo[a]anthracene	0.056	I	0.047	0.19
Chrysene	0.11	I	0.065	0.19
Benzo[b]fluoranthene	0.088	I	0.047	0.19
Benzo[k]fluoranthene	0.054	U	0.054	0.19
Benzo[a]pyrene	0.057	I	0.054	0.19
Indeno[1,2,3-cd]pyrene	0.047	U	0.047	0.19
Dibenz(a,h)anthracene	0.047	U	0.047	0.19
Benzo[g,h,i]perylene	0.095	U	0.095	0.47

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	73	30 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1319
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25013.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.24	U	0.24	1.9
2-Methylnaphthalene	0.48	U	0.48	1.9
1-Methylnaphthalene	0.48	U	0.48	1.9
Acenaphthylene	0.24	U	0.24	0.96
Acenaphthene	0.48	U	0.48	1.9
Fluorene	0.48	U	0.48	1.9
Phenanthrene	0.19	U	0.19	0.48
Anthracene	0.073	U	0.073	0.19
Fluoranthene	0.052	U	0.052	0.48
Pyrene	0.086	U	0.086	0.48
Benzo[a]anthracene	0.048	U	0.048	0.19
Chrysene	0.066	U	0.066	0.19
Benzo[b]fluoranthene	0.048	U	0.048	0.19
Benzo[k]fluoranthene	0.055	U	0.055	0.19
Benzo[a]pyrene	0.055	U	0.055	0.19
Indeno[1,2,3-cd]pyrene	0.048	U	0.048	0.19
Dibenz(a,h)anthracene	0.048	U	0.048	0.19
Benzo[g,h,i]perylene	0.096	U	0.096	0.48

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	85	30 - 130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1646
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000034.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0038	U	0.0038	0.0094
4,4'-DDE	0.0051	U	0.0051	0.0094
4,4'-DDT	0.0030	U	0.0030	0.0094
Aldrin	0.0017	U	0.0017	0.0094
alpha-BHC	0.0026	U	0.0026	0.0094
beta-BHC	0.0025	U	0.0025	0.0094
Chlordane (technical)	0.054	U	0.054	0.47
delta-BHC	0.0026	U	0.0026	0.0094
Dieldrin	0.0013	U	0.0013	0.0094
Endosulfan I	0.0032	U	0.0032	0.0094
Endosulfan II	0.0031	U	0.0031	0.0094
Endosulfan sulfate	0.0028	U	0.0028	0.0094
Endrin	0.0029	U	0.0029	0.0094
Endrin aldehyde	0.0030	U	0.0030	0.0094
Endrin ketone	0.0051	U	0.0051	0.094
gamma-BHC (Lindane)	0.0024	U	0.0024	0.0094
Heptachlor	0.0029	U	0.0029	0.0094
Heptachlor epoxide	0.0030	U	0.0030	0.0094
Methoxychlor	0.0048	U	0.0048	0.0094
Toxaphene	0.68	U	0.68	2.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	38	30 - 150
Tetrachloro-m-xylene	63	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 1659
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000035.D
Initial Weight/Volume: 970 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0042	U	0.0042	0.010
4,4'-DDE	0.0057	U	0.0057	0.010
4,4'-DDT	0.0033	U	0.0033	0.010
Aldrin	0.0019	U	0.0019	0.010
alpha-BHC	0.014		0.0029	0.010
beta-BHC	0.0049	I	0.0028	0.010
Chlordane (technical)	0.059	U	0.059	0.52
delta-BHC	0.029		0.0028	0.010
Dieldrin	0.0014	U	0.0014	0.010
Endosulfan I	0.0035	U	0.0035	0.010
Endosulfan II	0.0034	U	0.0034	0.010
Endosulfan sulfate	0.0030	U	0.0030	0.010
Endrin	0.0032	U	0.0032	0.010
Endrin aldehyde	0.0033	U	0.0033	0.010
Endrin ketone	0.0056	U	0.0056	0.10
gamma-BHC (Lindane)	0.016		0.0027	0.010
Heptachlor	0.0032	U	0.0032	0.010
Heptachlor epoxide	0.0032	U	0.0032	0.010
Methoxychlor	0.0052	U	0.0052	0.010
Toxaphene	0.74	U	0.74	3.1

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	61	30 - 150
Tetrachloro-m-xylene	63	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1520
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J030.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0095
4,4'-DDE	0.0052	U	0.0052	0.0095
4,4'-DDT	0.0030	U	0.0030	0.0095
Aldrin	0.0017	U	0.0017	0.0095
alpha-BHC	0.0027	U	0.0027	0.0095
beta-BHC	0.0025	U	0.0025	0.0095
Chlordane (technical)	0.054	U	0.054	0.48
delta-BHC	0.0026	U	0.0026	0.0095
Dieldrin	0.0013	U	0.0013	0.0095
Endosulfan I	0.0033	U	0.0033	0.0095
Endosulfan II	0.0031	U	0.0031	0.0095
Endosulfan sulfate	0.0028	U	0.0028	0.0095
Endrin	0.0030	U	0.0030	0.0095
Endrin aldehyde	0.0030	U	0.0030	0.0095
Endrin ketone	0.0051	U	0.0051	0.095
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0095
Heptachlor	0.0029	U	0.0029	0.0095
Heptachlor epoxide	0.0030	U	0.0030	0.0095
Methoxychlor	0.0048	U	0.0048	0.0095
Toxaphene	0.69	U	0.69	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	45	30 - 150
Tetrachloro-m-xylene	64	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1547
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J032.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0041	U	0.0041	0.010
4,4'-DDE	0.0055	U	0.0055	0.010
4,4'-DDT	0.0032	U	0.0032	0.010
Aldrin	0.0018	U	0.0018	0.010
alpha-BHC	0.0028	U	0.0028	0.010
beta-BHC	0.0027	U	0.0027	0.010
Chlordane (technical)	0.057	U	0.057	0.50
delta-BHC	0.0028	U	0.0028	0.010
Dieldrin	0.0014	U	0.0014	0.010
Endosulfan I	0.0034	U	0.0034	0.010
Endosulfan II	0.0033	U	0.0033	0.010
Endosulfan sulfate	0.0030	U	0.0030	0.010
Endrin	0.0031	U	0.0031	0.010
Endrin aldehyde	0.0032	U	0.0032	0.010
Endrin ketone	0.0054	U	0.0054	0.10
gamma-BHC (Lindane)	0.0026	U	0.0026	0.010
Heptachlor	0.0031	U	0.0031	0.010
Heptachlor epoxide	0.0031	U	0.0031	0.010
Methoxychlor	0.0051	U	0.0051	0.010
Toxaphene	0.72	U	0.72	3.0

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	47	30 - 150
Tetrachloro-m-xylene	65	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1614
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J034.D
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0094
4,4'-DDE	0.0052	U	0.0052	0.0094
4,4'-DDT	0.0030	U	0.0030	0.0094
Aldrin	0.0017	U	0.0017	0.0094
alpha-BHC	0.0026	U	0.0026	0.0094
beta-BHC	0.0025	U	0.0025	0.0094
Chlordane (technical)	0.054	U	0.054	0.47
delta-BHC	0.0026	U	0.0026	0.0094
Dieldrin	0.0083	I	0.0013	0.0094
Endosulfan I	0.0032	U	0.0032	0.0094
Endosulfan II	0.0031	U	0.0031	0.0094
Endosulfan sulfate	0.0028	U	0.0028	0.0094
Endrin	0.0029	U	0.0029	0.0094
Endrin aldehyde	0.0030	U	0.0030	0.0094
Endrin ketone	0.0051	U	0.0051	0.094
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0094
Heptachlor	0.0029	U	0.0029	0.0094
Heptachlor epoxide	0.0030	U	0.0030	0.0094
Methoxychlor	0.0048	U	0.0048	0.0094
Toxaphene	0.68	U	0.68	2.8

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	50	30 - 150
Tetrachloro-m-xylene	62	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1627
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J035.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Endrin aldehyde	0.0031	U	0.0031	0.0096

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1721
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J039.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0096
4,4'-DDE	0.0053	U	0.0053	0.0096
4,4'-DDT	0.0030	U	0.0030	0.0096
Aldrin	0.0018	U	0.0018	0.0096
alpha-BHC	0.0027	U	0.0027	0.0096
beta-BHC	0.0026	U	0.0026	0.0096
Chlordane (technical)	0.055	U	0.055	0.48
delta-BHC	0.0027	U	0.0027	0.0096
Dieldrin	0.0013	U	0.0013	0.0096
Endosulfan I	0.0033	U	0.0033	0.0096
Endosulfan II	0.0032	U	0.0032	0.0096
Endosulfan sulfate	0.0028	U	0.0028	0.0096
Endrin	0.0030	U	0.0030	0.0096
Endrin ketone	0.0052	U	0.0052	0.096
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0096
Heptachlor	0.0030	U	0.0030	0.0096
Heptachlor epoxide	0.0030	U	0.0030	0.0096
Methoxychlor	0.0049	U	0.0049	0.0096
Toxaphene	0.69	U	0.69	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	44	30 - 150
Tetrachloro-m-xylene	52	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 2003
Date Prepared: 03/21/2009 1430

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K049.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.24	U	0.24	0.47
PCB-1221	0.14	U	0.14	0.47
PCB-1232	0.36	U	0.36	0.47
PCB-1242	0.072	U	0.072	0.47
PCB-1248	0.066	U	0.066	0.47
PCB-1254	0.11	U	0.11	0.47
PCB-1260	0.094	U	0.094	0.47

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	41	30 - 150
Tetrachloro-m-xylene	66	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/23/2009 2017
Date Prepared: 03/21/2009 1431

Analysis Batch: 660-76838
Prep Batch: 660-76594

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K050.D
Initial Weight/Volume: 970 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.27	U	0.27	0.52
PCB-1221	0.15	U	0.15	0.52
PCB-1232	0.39	U	0.39	0.52
PCB-1242	0.079	U	0.079	0.52
PCB-1248	0.072	U	0.072	0.52
PCB-1254	0.12	U	0.12	0.52
PCB-1260	0.10	U	0.10	0.52

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	65	30 - 150
Tetrachloro-m-xylene	61	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1304
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K021.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.48
PCB-1221	0.14	U	0.14	0.48
PCB-1232	0.36	U	0.36	0.48
PCB-1242	0.073	U	0.073	0.48
PCB-1248	0.067	U	0.067	0.48
PCB-1254	0.11	U	0.11	0.48
PCB-1260	0.095	U	0.095	0.48

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	45	30 - 150
Tetrachloro-m-xylene	75	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1324
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K022.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.26	U	0.26	0.50
PCB-1221	0.15	U	0.15	0.50
PCB-1232	0.38	U	0.38	0.50
PCB-1242	0.077	U	0.077	0.50
PCB-1248	0.070	U	0.070	0.50
PCB-1254	0.12	U	0.12	0.50
PCB-1260	0.10	U	0.10	0.50

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	44	30 - 150
Tetrachloro-m-xylene	74	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1352
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K024.D
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.47
PCB-1221	0.14	U	0.14	0.47
PCB-1232	0.36	U	0.36	0.47
PCB-1242	0.073	U	0.073	0.47
PCB-1248	0.066	U	0.066	0.47
PCB-1254	0.11	U	0.11	0.47
PCB-1260	0.094	U	0.094	0.47

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	53	30 - 150
Tetrachloro-m-xylene	71	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1405
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K025.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.48
PCB-1221	0.14	U	0.14	0.48
PCB-1232	0.37	U	0.37	0.48
PCB-1242	0.074	U	0.074	0.48
PCB-1248	0.067	U	0.067	0.48
PCB-1254	0.12	U	0.12	0.48
PCB-1260	0.096	U	0.096	0.48

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	43	30 - 150
Tetrachloro-m-xylene	63	30 - 150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2257
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F29.d
Initial Weight/Volume: 1060 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.31	U	0.31	0.94
Bolstar	0.090	U	0.090	0.94
Chlorpyrifos	0.10	U	0.10	0.94
Coumaphos	0.076	U	0.076	0.94
Demeton-O	0.10	U	0.10	2.4
Diazinon	0.10	U	0.10	0.94
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.30	U	0.30	1.9
Disulfoton	0.11	U	0.11	1.9
EPN	0.067	U	0.067	0.94
Ethion	0.10	U	0.10	0.47
Ethoprop	0.39	U	0.39	0.47
Ethyl Parathion	0.075	U	0.075	0.94
Fensulfothion	0.16	U	0.16	4.7
Malathion	0.087	U	0.087	0.94
Merphos	0.12	U	0.12	0.94
Methyl parathion	0.11	U	0.11	0.47
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.4
Naled	0.34	U	0.34	4.7
Phorate	0.15	U	0.15	0.94
Ronnel	0.12	U	0.12	0.94
Stirophos	0.079	U	0.079	0.94
Sulfotepp	0.052	U	0.052	0.47
Tokuthion	0.082	U	0.082	0.94
Trichloronate	0.10	U	0.10	0.94

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	106	37 - 139

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: **MW-127**

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2311
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F30.d
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.98
Bolstar	0.093	U	0.093	0.98
Chlorpyrifos	0.11	U	0.11	0.98
Coumaphos	0.079	U	0.079	0.98
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U	0.11	0.98
Dichlorvos	0.25	U	0.25	2.0
Dimethoate	0.31	U	0.31	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.070	U	0.070	0.98
Ethion	0.11	U	0.11	0.49
Ethoprop	0.40	U	0.40	0.49
Ethyl Parathion	0.078	U	0.078	0.98
Fensulfothion	0.17	U	0.17	4.9
Malathion	0.090	U	0.090	0.98
Merphos	0.13	U	0.13	0.98
Methyl parathion	0.12	U	0.12	0.49
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.5	U	2.5	9.8
Naled	0.35	U	0.35	4.9
Phorate	0.16	U	0.16	0.98
Ronnel	0.13	U	0.13	0.98
Stirophos	0.082	U	0.082	0.98
Sulfotepp	0.054	U	0.054	0.49
Tokuthion	0.085	U	0.085	0.98
Trichloronate	0.11	U	0.11	0.98

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	92	37 - 139

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2324
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F31.d
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.98
Bolstar	0.093	U	0.093	0.98
Chlorpyrifos	0.11	U	0.11	0.98
Coumaphos	0.079	U	0.079	0.98
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U	0.11	0.98
Dichlorvos	0.25	U	0.25	2.0
Dimethoate	0.31	U	0.31	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.070	U	0.070	0.98
Ethion	0.11	U	0.11	0.49
Ethoprop	0.40	U	0.40	0.49
Ethyl Parathion	0.078	U	0.078	0.98
Fensulfothion	0.17	U	0.17	4.9
Malathion	0.090	U	0.090	0.98
Merphos	0.13	U	0.13	0.98
Methyl parathion	0.12	U	0.12	0.49
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.5	U	2.5	9.8
Naled	0.35	U	0.35	4.9
Phorate	0.16	U	0.16	0.98
Ronnel	0.13	U	0.13	0.98
Stirophos	0.082	U	0.082	0.98
Sulfotepp	0.054	U	0.054	0.49
Tokuthion	0.085	U	0.085	0.98
Trichloronate	0.11	U	0.11	0.98

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	109	37 - 139

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2338
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F32.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.96
Bolstar	0.091	U	0.091	0.96
Chlorpyrifos	0.11	U	0.11	0.96
Coumaphos	0.078	U	0.078	0.96
Demeton-O	0.11	U	0.11	2.4
Diazinon	0.11	U	0.11	0.96
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.31	U	0.31	1.9
Disulfoton	0.12	U	0.12	1.9
EPN	0.068	U	0.068	0.96
Ethion	0.11	U	0.11	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.077	U	0.077	0.96
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.96
Merphos	0.12	U	0.12	0.96
Methyl parathion	0.12	U	0.12	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.6
Naled	0.35	U	0.35	4.8
Phorate	0.15	U	0.15	0.96
Ronnel	0.12	U	0.12	0.96
Stirophos	0.081	U	0.081	0.96
Sulfotepp	0.053	U	0.053	0.48
Tokuthion	0.084	U	0.084	0.96
Trichloronate	0.11	U	0.11	0.96

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	103	37 - 139

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 2352
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F33.d
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.31	U	0.31	0.95
Bolstar	0.090	U	0.090	0.95
Chlorpyrifos	0.10	U	0.10	0.95
Coumaphos	0.077	U	0.077	0.95
Demeton-O	0.10	U	0.10	2.4
Diazinon	0.10	U	0.10	0.95
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.30	U	0.30	1.9
Disulfoton	0.11	U	0.11	1.9
EPN	0.068	U	0.068	0.95
Ethion	0.10	U	0.10	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.076	U	0.076	0.95
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.95
Merphos	0.12	U	0.12	0.95
Methyl parathion	0.11	U	0.11	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.5
Naled	0.34	U	0.34	4.8
Phorate	0.15	U	0.15	0.95
Ronnel	0.12	U	0.12	0.95
Stirophos	0.080	U	0.080	0.95
Sulfotepp	0.052	U	0.052	0.48
Tokuthion	0.083	U	0.083	0.95
Trichloronate	0.10	U	0.10	0.95

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	101	37 - 139

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/26/2009 0006
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F34.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.96
Bolstar	0.091	U	0.091	0.96
Chlorpyrifos	0.11	U	0.11	0.96
Coumaphos	0.078	U	0.078	0.96
Demeton-O	0.11	U	0.11	2.4
Diazinon	0.11	U	0.11	0.96
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.31	U	0.31	1.9
Disulfoton	0.12	U	0.12	1.9
EPN	0.068	U	0.068	0.96
Ethion	0.11	U	0.11	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.077	U	0.077	0.96
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.96
Merphos	0.12	U	0.12	0.96
Methyl parathion	0.12	U	0.12	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.6
Naled	0.35	U	0.35	4.8
Phorate	0.15	U	0.15	0.96
Ronnel	0.12	U	0.12	0.96
Stirophos	0.081	U	0.081	0.96
Sulfotepp	0.053	U	0.053	0.48
Tokuthion	0.084	U	0.084	0.96
Trichloronate	0.11	U	0.11	0.96

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	90	37 - 139

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/25/2009 0107
Date Prepared: 03/22/2009 0837

Analysis Batch: 660-76774
Prep Batch: 660-76598

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J070.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.94	U	0.94	4.7
2,4-D	0.94	U	0.94	4.7
2,4-DB	0.94	U	0.94	4.7
Dalapon	23	U	23	110
Dicamba	0.23	U	0.23	1.1
Dichlorprop	0.94	U	0.94	5.6
Dinoseb	0.94	U	0.94	5.6
MCPA	32	U	32	110
MCPP	33	U	33	110
Pentachlorophenol	0.080	U	0.080	0.94
Picloram	0.94	U	0.94	4.7
Silvex (2,4,5-TP)	0.94	U	0.94	4.7

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	97	33 - 120

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: **MW-127**

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0224
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J055.D
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	1.1	U	1.1	5.3
2,4-D	1.1	U	1.1	5.3
2,4-DB	1.1	U	1.1	5.3
Dalapon	26	U	26	130
Dicamba	0.26	U	0.26	1.3
Dichlorprop	1.1	U	1.1	6.3
Dinoseb	1.1	U	1.1	6.3
MCPA	36	U	36	130
MCPP	37	U	37	130
Pentachlorophenol	0.089	U	0.089	1.1
Picloram	1.1	U	1.1	5.3
Silvex (2,4,5-TP)	1.1	U	1.1	5.3

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	75	33 - 120

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: **MW-77**

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0240
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J056.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.95	U	0.95	4.8
2,4-D	0.95	U	0.95	4.8
2,4-DB	0.95	U	0.95	4.8
Dalapon	24	U	24	110
Dicamba	0.24	U	0.24	1.1
Dichlorprop	0.95	U	0.95	5.7
Dinoseb	0.95	U	0.95	5.7
MCPA	32	U	32	110
MCPP	33	U	33	110
Pentachlorophenol	0.081	U	0.081	0.95
Picloram	0.95	U	0.95	4.8
Silvex (2,4,5-TP)	0.95	U	0.95	4.8

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	46	33 - 120

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0255
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J057.D
Initial Weight/Volume: 960 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	1.0	U	1.0	5.2
2,4-D	1.0	U	1.0	5.2
2,4-DB	1.0	U	1.0	5.2
Dalapon	26	U	26	120
Dicamba	0.26	U	0.26	1.2
Dichlorprop	1.0	U	1.0	6.3
Dinoseb	1.0	U	1.0	6.3
MCPA	35	U	35	120
MCPP	36	U	36	120
Pentachlorophenol	0.089	U	0.089	1.0
Picloram	1.0	U	1.0	5.2
Silvex (2,4,5-TP)	1.0	U	1.0	5.2

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	47	33 - 120

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: **MW-37**

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/27/2009 0311
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J058.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.94	U	0.94	4.7
2,4-D	0.94	U	0.94	4.7
2,4-DB	0.94	U	0.94	4.7
Dalapon	23	U	23	110
Dicamba	0.23	U	0.23	1.1
Dichlorprop	0.94	U	0.94	5.6
Dinoseb	0.94	U	0.94	5.6
MCPA	32	U	32	110
MCPP	33	U	33	110
Pentachlorophenol	0.080	U	0.080	0.94
Picloram	0.94	U	0.94	4.7
Silvex (2,4,5-TP)	0.94	U	0.94	4.7

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	50	33 - 120

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 1.0
Date Analyzed: 03/25/2009 0138
Date Prepared: 03/22/2009 0837

Analysis Batch: 660-76774
Prep Batch: 660-76598

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J072.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.96	U	0.96	4.8
2,4-D	0.96	U	0.96	4.8
2,4-DB	0.96	U	0.96	4.8
Dalapon	24	U	24	120
Dicamba	0.24	U	0.24	1.2
Dichlorprop	0.96	U	0.96	5.8
Dinoseb	0.96	U	0.96	5.8
MCPA	33	U	33	120
MCPP	34	U	34	120
Pentachlorophenol	0.082	U	0.082	0.96
Picloram	0.96	U	0.96	4.8
Silvex (2,4,5-TP)	0.96	U	0.96	4.8

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	78	33 - 120

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1243
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	7600		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1704
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	330		15	50
Arsenic	20	V	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	46000		50	250
Cadmium	0.34	I	0.12	0.50
Chromium	1.1	I V	0.60	5.0
Copper	16		1.2	5.0
Iron	9000		12	100
Potassium	4600		40	250
Magnesium	19000		14	250
Manganese	15		0.95	5.0
Sodium	24000		90	250
Lead	0.15	U	0.15	1.5
Antimony	2.4	I V	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	1.1		0.55	1.0
Nickel	8.9	V	0.32	1.0
Zinc	6.7	I	6.5	20

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1926
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	340		15	50
Arsenic, Dissolved	22		0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	49000	V	50	250
Cadmium, Dissolved	0.20	I	0.12	0.50
Chromium, Dissolved	1.2	I V	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	9500		12	100
Potassium, Dissolved	4800		40	250
Magnesium, Dissolved	21000		14	250
Manganese, Dissolved	16		0.95	5.0
Sodium, Dissolved	25000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	2.3	I V	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	1.1		0.55	1.0
Nickel, Dissolved	9.7	V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1519
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1526
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 04/01/2009 1704
Date Prepared: N/A

Analysis Batch: 680-135370

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	190		16	16
Calcium hardness as calcium carbonate	110		6.0	6.0
Magnesium hardness as calcium carbonate	80		10	10

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1246
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	38000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1737
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	15	U	15	50
Arsenic	0.85	I V	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	120000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	1.5	I V	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	26	I	12	100
Potassium	2400		40	250
Magnesium	58000		14	250
Manganese	1.2	I	0.95	5.0
Sodium	36000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	2.1	V	0.32	1.0
Zinc	6.5	U	6.5	20

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1932
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	0.39	I	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	130000	V	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	1.0	I V	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	19	I	12	100
Potassium, Dissolved	2300		40	250
Magnesium, Dissolved	60000		14	250
Manganese, Dissolved	1.1	I	0.95	5.0
Sodium, Dissolved	38000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	1.5	V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1528
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1537
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 04/01/2009 1737
Date Prepared: N/A

Analysis Batch: 680-135370

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	540		16	16
Calcium hardness as calcium carbonate	300		6.0	6.0
Magnesium hardness as calcium carbonate	240		10	10

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1248
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	23000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1744
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	15	U	15	50
Arsenic	0.52	I V	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	76000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	1.5	I V	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	4900		12	100
Potassium	2100		40	250
Magnesium	37000		14	250
Manganese	87		0.95	5.0
Sodium	66000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.77	I V	0.32	1.0
Zinc	6.5	U	6.5	20

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1939
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	0.55	I	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	85000	V	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	1.4	I V	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	4700		12	100
Potassium, Dissolved	2100		40	250
Magnesium, Dissolved	41000		14	250
Manganese, Dissolved	95		0.95	5.0
Sodium, Dissolved	70000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.70	I V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1539
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1541
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 04/01/2009 1744
Date Prepared: N/A

Analysis Batch: 680-135370

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	340		16	16
Calcium hardness as calcium carbonate	190		6.0	6.0
Magnesium hardness as calcium carbonate	150		10	10

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1251
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	17000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1751
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	22	I	15	50
Arsenic	1.3	I V	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	64000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	1.3	I V	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	5500		12	100
Potassium	1100		40	250
Magnesium	27000		14	250
Manganese	52		0.95	5.0
Sodium	33000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.68	I V	0.32	1.0
Zinc	6.5	U	6.5	20

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1946
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	17	I	15	50
Arsenic, Dissolved	1.3	I	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	72000	V	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	1.3	I V	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	5400		12	100
Potassium, Dissolved	1200		40	250
Magnesium, Dissolved	31000		14	250
Manganese, Dissolved	56		0.95	5.0
Sodium, Dissolved	38000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.69	I V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1544
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1546
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 04/01/2009 1751
Date Prepared: N/A

Analysis Batch: 680-135370

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	270		16	16
Calcium hardness as calcium carbonate	160		6.0	6.0
Magnesium hardness as calcium carbonate	110		10	10

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1254
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	23000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1811
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	15	U	15	50
Arsenic	4.0	V	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	110000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	1.4	I V	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	4900		12	100
Potassium	3000		40	250
Magnesium	47000		14	250
Manganese	86		0.95	5.0
Sodium	45000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.54	I V	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	4.2	V	0.32	1.0
Zinc	6.5	U	6.5	20

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1953
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	4.2		0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	110000	V	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	1.3	I V	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	5000		12	100
Potassium, Dissolved	3000		40	250
Magnesium, Dissolved	48000		14	250
Manganese, Dissolved	87		0.95	5.0
Sodium, Dissolved	46000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	4.3	V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1548
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1550
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 04/01/2009 1811
Date Prepared: N/A

Analysis Batch: 680-135370

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	460		16	16
Calcium hardness as calcium carbonate	270		6.0	6.0
Magnesium hardness as calcium carbonate	200		10	10

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1256
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	9100		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1818
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	210		15	50
Arsenic	4.6	V	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	26000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	1.0	I V	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	27000		12	100
Potassium	5100		40	250
Magnesium	10000		14	250
Manganese	12		0.95	5.0
Sodium	43000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	1.4	V	0.32	1.0
Zinc	6.5	U	6.5	20

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1959
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	200		15	50
Arsenic, Dissolved	4.8		0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	29000	V	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	1.1	I V	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	30000		12	100
Potassium, Dissolved	5600		40	250
Magnesium, Dissolved	11000		14	250
Manganese, Dissolved	13		0.95	5.0
Sodium, Dissolved	47000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	1.6	V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1553
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1600
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 04/01/2009 1818
Date Prepared: N/A

Analysis Batch: 680-135370

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	110		16	16
Calcium hardness as calcium carbonate	65		6.0	6.0
Magnesium hardness as calcium carbonate	42		10	10

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Client Sample ID: MW-254

Lab Sample ID: 660-28285-7
Client Matrix: Water

Date Sampled: 03/19/2009 1650
Date Received: 03/20/2009 1100

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1825
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Iron	32000		12	100
Manganese	29		0.95	5.0

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 2006
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Iron, Dissolved	30000		12	100
Manganese, Dissolved	30		0.95	5.0

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 04/01/2009 1825
Date Prepared: N/A

Analysis Batch: 680-135370

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	240		16	16
Calcium hardness as calcium carbonate	140		6.0	6.0
Magnesium hardness as calcium carbonate	100		10	10

General Chemistry

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.95	U	mg/L	0.95	4.8	1.0	1664A
Anly Batch: 660-76663	Date Analyzed		03/23/2009 1720				
Prep Batch: 660-76612	Date Prepared:		03/23/2009 1011				
Total Dissolved Solids	360		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55056	Date Analyzed		03/25/2009 1434				
Total Suspended Solids	10		mg/L	0.96	2.0	1.0	SM 2540D
Anly Batch: 640-55054	Date Analyzed		03/25/2009 1430				
Fluoride	0.68		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/27/2009 2051				
Chloride	45		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1610				
Sulfate	170		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1636				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76888	Date Analyzed		03/25/2009 1700				
Prep Batch: 660-76886	Date Prepared:		03/25/2009 1400				
Ammonia (as N)	1.8		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76832	Date Analyzed		03/26/2009 1311				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1900				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Total Organic Carbon	2.2		mg/L	0.10	1.0	1.0	SM 5310C
Anly Batch: 640-54987	Date Analyzed		03/23/2009 1125				
MBAS	0.052	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 1654				

Analyte	Result	Qual	Units	Dil	Method
pH	5.63	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76582	Date Analyzed		03/19/2009 1900		

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

General Chemistry

Client Sample ID: MW-36

Lab Sample ID: 660-28285-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	570		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0939				
Alkalinity	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1420				
Bicarbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1420				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1420				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76554	Date Analyzed		03/20/2009 1559				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	1.0	U	mg/L	1.0	5.0	1.0	1664A
Anly Batch: 660-76663	Date Analyzed		03/23/2009 1720				
Prep Batch: 660-76612	Date Prepared:		03/23/2009 1011				
Total Dissolved Solids	760		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55056	Date Analyzed		03/25/2009 1434				
Total Suspended Solids	0.70	I	mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55054	Date Analyzed		03/25/2009 1430				
Fluoride	0.62		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/27/2009 2209				
Chloride	73		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1702				
Sulfate	250		mg/L	4.0	10	20	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1728				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76888	Date Analyzed		03/25/2009 1700				
Prep Batch: 660-76886	Date Prepared:		03/25/2009 1400				
Ammonia (as N)	0.43		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76832	Date Analyzed		03/26/2009 1316				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1900				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Total Organic Carbon	4.4		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54987	Date Analyzed		03/22/2009 2113				
MBAS	0.050	U	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 1654				

Analyte	Result	Qual	Units	Dil	Method
pH	7.08	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76582	Date Analyzed		03/19/2009 1900		

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

General Chemistry

Client Sample ID: MW-127

Lab Sample ID: 660-28285-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	1100		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0940				
Alkalinity	220		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1426				
Bicarbonate Alkalinity as CaCO3	220		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1426				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1426				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76554	Date Analyzed		03/20/2009 1606				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.96	U	mg/L	0.96	4.8	1.0	1664A
Anly Batch: 660-76813	Date Analyzed		03/26/2009 1140				
Prep Batch: 660-76745	Date Prepared:		03/25/2009 1044				
Total Dissolved Solids	570		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55056	Date Analyzed		03/25/2009 1434				
Total Suspended Solids	14		mg/L	0.96	2.0	1.0	SM 2540D
Anly Batch: 640-55054	Date Analyzed		03/25/2009 1430				
Fluoride	0.40		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/27/2009 2234				
Chloride	75		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1911				
Sulfate	180		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1845				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76888	Date Analyzed		03/25/2009 1700				
Prep Batch: 660-76886	Date Prepared:		03/25/2009 1400				
Ammonia (as N)	0.34		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76832	Date Analyzed		03/26/2009 1318				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1900				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Total Organic Carbon	5.2		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54987	Date Analyzed		03/22/2009 2154				
MBAS	0.081	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 1654				

Analyte	Result	Qual	Units	Dil	Method
pH	6.68	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76582	Date Analyzed		03/19/2009 1900		

General Chemistry

Client Sample ID: MW-77

Lab Sample ID: 660-28285-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	950		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0942				
Alkalinity	190		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1432				
Bicarbonate Alkalinity as CaCO3	190		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1432				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1432				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76554	Date Analyzed		03/20/2009 1614				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.97	U	mg/L	0.97	4.8	1.0	1664A
Anly Batch: 660-76813	Date Analyzed		03/26/2009 1140				
Prep Batch: 660-76745	Date Prepared:		03/25/2009 1044				
Total Dissolved Solids	430		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55056	Date Analyzed		03/25/2009 1434				
Total Suspended Solids	14		mg/L	0.96	2.0	1.0	SM 2540D
Anly Batch: 640-55054	Date Analyzed		03/25/2009 1431				
Fluoride	0.43		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/27/2009 2300				
Chloride	85		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1937				
Sulfate	72		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 1937				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76888	Date Analyzed		03/25/2009 1700				
Prep Batch: 660-76886	Date Prepared:		03/25/2009 1400				
Ammonia (as N)	0.29		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76832	Date Analyzed		03/26/2009 1319				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1900				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Total Organic Carbon	4.2		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54987	Date Analyzed		03/22/2009 2208				
MBAS	0.13		mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 1654				

Analyte	Result	Qual	Units	Dil	Method
pH	6.65	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76582	Date Analyzed		03/19/2009 1900		

General Chemistry

Client Sample ID: MW-110

Lab Sample ID: 660-28285-4
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	730		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0943				
Alkalinity	160		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1438				
Bicarbonate Alkalinity as CaCO3	160		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1438				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1438				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76554	Date Analyzed		03/20/2009 1620				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	0.95	U	mg/L	0.95	4.7	1.0	1664A
Anly Batch: 660-76926	Date Analyzed		03/27/2009 1512				
Prep Batch: 660-76842	Date Prepared:		03/26/2009 1456				
Total Dissolved Solids	700		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55056	Date Analyzed		03/25/2009 1434				
Total Suspended Solids	23		mg/L	0.96	2.0	1.0	SM 2540D
Anly Batch: 640-55054	Date Analyzed		03/25/2009 1431				
Fluoride	0.49		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/27/2009 2326				
Chloride	61		mg/L	1.0	2.5	5.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 2003				
Sulfate	260		mg/L	4.0	10	20	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 2029				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76888	Date Analyzed		03/25/2009 1700				
Prep Batch: 660-76886	Date Prepared:		03/25/2009 1400				
Ammonia (as N)	0.75		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76832	Date Analyzed		03/26/2009 1320				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1900				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Total Organic Carbon	5.1		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-54987	Date Analyzed		03/22/2009 2221				
MBAS	0.050	U	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 1654				

Analyte	Result	Qual	Units	Dil	Method
pH	6.85	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76582	Date Analyzed		03/19/2009 1900		

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

General Chemistry

Client Sample ID: MW-37

Lab Sample ID: 660-28285-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	1000		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0945				
Alkalinity	180		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1445				
Bicarbonate Alkalinity as CaCO3	180		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1445				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1445				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76554	Date Analyzed		03/20/2009 1627				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

General Chemistry

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	1.5	I	mg/L	0.95	4.8	1.0	1664A
Anly Batch: 660-76926	Date Analyzed		03/27/2009 1512				
Prep Batch: 660-76842	Date Prepared:		03/26/2009 1456				
Total Dissolved Solids	350		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55056	Date Analyzed		03/25/2009 1434				
Total Suspended Solids	13		mg/L	1.2	2.5	1.0	SM 2540D
Anly Batch: 640-55054	Date Analyzed		03/25/2009 1431				
Fluoride	0.44		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/27/2009 2352				
Chloride	32		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 2055				
Sulfate	180		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-76981	Date Analyzed		03/30/2009 2120				
Cyanide	0.0062	U	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76888	Date Analyzed		03/25/2009 1700				
Prep Batch: 660-76886	Date Prepared:		03/25/2009 1400				
Ammonia (as N)	3.4		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76832	Date Analyzed		03/26/2009 1321				
Chromium (hexavalent)	0.0014	U J3	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76488	Date Analyzed		03/19/2009 1900				
Nitrate Nitrite as N	0.13	I	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-76611	Date Analyzed		03/20/2009 1417				
Total Organic Carbon	3.4		mg/L	0.10	1.0	1.0	SM 5310C
Anly Batch: 640-54987	Date Analyzed		03/23/2009 1141				
MBAS	0.050	U	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76559	Date Analyzed		03/20/2009 1654				

Analyte	Result	Qual	Units	Dil	Method
pH	5.65	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76582	Date Analyzed		03/19/2009 1900		

General Chemistry

Client Sample ID: MW-40

Lab Sample ID: 660-28285-6
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	580		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0947				
Alkalinity	11		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1502				
Bicarbonate Alkalinity as CaCO3	11		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1502				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1502				
Biochemical Oxygen Demand	2.4		mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76554	Date Analyzed		03/20/2009 1635				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76587	Date Analyzed		03/20/2009 1830				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC/MS Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Section	Qualifier	Description
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	NBZ %Rec	PHL %Rec	FBP %Rec	TPH %Rec	TBP %Rec
660-28285-1	MW-36	50	55	45	49	53	70
660-28285-2	MW-127	41	41	36	39	28	52
660-28285-3	MW-77	50	49	47	45	36	63
660-28285-4	MW-110	44	44	40	43	25	56
660-28285-5	MW-37	35	35	32	36	32	62
660-28285-6	MW-40	43	47	39	44	43	67
MB 660-76626/1-A		72	73	65	64	98	88
LCS 660-76626/2-A		64	73	52	64	75	87
660-28285-6 MS	MW-40 MS	41	48	37	46	44	67
660-28285-5 DU	MW-37 DU	46	47	44	43	30	64

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	29-121
NBZ = Nitrobenzene-d5	34-130
PHL = Phenol-d5	25-128
FBP = 2-Fluorobiphenyl	36-124
TPH = Terphenyl-d14	14-148
TBP = 2,4,6-Tribromophenol	29-143

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Surrogate Recovery Report

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
660-28285-1	MW-36	81
660-28285-2	MW-127	79
660-28285-3	MW-77	75
660-28285-4	MW-110	90
660-28285-5	MW-37	73
660-28285-6	MW-40	85
MB 660-76618/1-A		121
LCS 660-76618/2-A		110
660-28285-6 MS	MW-40 MS	80
660-28285-5 DU	MW-37 DU	79

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	30-130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Surrogate Recovery Report

8081A Organochlorine Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec	TCX2 %Rec
660-28285-1	MW-36	38		63
660-28285-2	MW-127	61		63
660-28285-3	MW-77	45	64	
660-28285-4	MW-110	47		65
660-28285-5	MW-37	50		62
660-28285-6	MW-40	44	52	
MB 660-76594/1-A		82		45
MB 660-76627/1-A		79	25J1	
LCS 660-76594/2-A		82	59	
LCS 660-76627/2-A		79	29J1	
660-28285-3 MS	MW-77 MS	50	61	
660-28254-V-2-B MS		60	59	
660-28285-4 DU	MW-110 DU	46		64
660-28254-G-1-B DU		48		71

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	30-150
TCX = Tetrachloro-m-xylene	30-150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
660-28285-1	MW-36	41	66
660-28285-2	MW-127	65	61
660-28285-3	MW-77	45	75
660-28285-4	MW-110	44	74
660-28285-5	MW-37	53	71
660-28285-6	MW-40	43	63
MB 660-76594/15-A		83	39
MB 660-76627/1-A		74	26J1
LCS 660-76594/16-A		82	57
LCS 660-76627/19-A		90	89
660-28254-U-4-A MS		44	52
660-28303-J-2-A MS		62	75
660-28285-1 DU	MW-36 DU	52	62
660-28285-4 DU	MW-110 DU	49	77

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	30-150
TCX = Tetrachloro-m-xylene	30-150

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Surrogate Recovery Report

8151A Herbicides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec	DCPA2 %Rec
660-28285-1	MW-36		97
660-28285-2	MW-127		75
660-28285-3	MW-77	46	
660-28285-4	MW-110	47	
660-28285-5	MW-37	50	
660-28285-6	MW-40		78
MB 660-76598/1-A			69
MB 660-76768/1-A			70
LCS 660-76598/2-A		100	
LCS 660-76768/2-A		96	
LCSD 660-76768/3-A		91	
660-28285-6 MS	MW-40 MS	108	
660-28285-1 DU	MW-36 DU		87

Surrogate	Acceptance Limits
DCPA = 2,4-Dichlorophenylacetic acid	33-120

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Surrogate Recovery Report

524.2 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
660-28285-1	MW-36	93	100
660-28285-2	MW-127	92	99
660-28285-3	MW-77	87	93
660-28285-4	MW-110	88	92
660-28285-5	MW-37	92	98
660-28285-6	MW-40	91	94
MB 680-133341/9		94	98
LCS 680-133341/7		102	100
LCSD 680-133341/8		100	100

Surrogate	Acceptance Limits
12DCB = 1,2-Dichlorobenzene-d4	70-130
BFB = 4-Bromofluorobenzene	70-130

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Surrogate Recovery Report

8141A Organophosphorous Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TPP1 %Rec	TPP2 %Rec
660-28285-1	MW-36	106	
660-28285-2	MW-127		92
660-28285-3	MW-77		109
660-28285-4	MW-110		103
660-28285-5	MW-37		101
660-28285-6	MW-40	90	
MB 640-54931/1-A		102	
LCS 640-54931/2-A			101
LCSD 640-54931/3-A			114
660-28254-A-1-A MS			88
660-28254-A-1-B MSD			111

Surrogate	Acceptance Limits
TPP = Triphenylphosphate (TPP)	37-139

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 680-133341

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-133341/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1120
Date Prepared: N/A

Analysis Batch: 680-133341
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq124.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	94	70 - 130
4-Bromofluorobenzene	98	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-133341

Method: 524.2
Preparation: N/A

LCS Lab Sample ID: LCS 680-133341/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1001
Date Prepared: N/A

Analysis Batch: 680-133341
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq122.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-133341/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1021
Date Prepared: N/A

Analysis Batch: 680-133341
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq123.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzene	95	94	70 - 130	2	30		
Bromoform	101	100	70 - 130	1	30		
Chloroform	101	99	70 - 130	2	30		
Dichlorobromomethane	113	113	70 - 130	0	30		
Chlorodibromomethane	127	127	70 - 130	0	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	102	100	70 - 130
4-Bromofluorobenzene	100	100	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-133341

Method: 524.2
Preparation: N/A

LCS Lab Sample ID: LCS 680-133341/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1001
Date Prepared: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 680-133341/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1021
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	20.0	20.0	19.1	18.7
Bromoform	20.0	20.0	20.1	19.9
Chloroform	20.0	20.0	20.2	19.9
Dichlorobromomethane	20.0	20.0	22.6	22.6
Chlorodibromomethane	20.0	20.0	25.3	25.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 660-76626/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1636
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24016.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	PQL
Phenol	2.4	U	2.4	4.0
Dimethyl phthalate	2.5	U	2.5	10
Diethyl phthalate	2.5	U	2.5	10
Di-n-butyl phthalate	2.5	U	2.5	10
Butyl benzyl phthalate	1.2	U	1.2	10
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	6.0
Di-n-octyl phthalate	2.5	U	2.5	10
2-Chlorophenol	2.1	U	2.1	10
2-Nitrophenol	1.2	U	1.2	10
2,4-Dimethylphenol	1.8	U	1.8	10
2,4-Dichlorophenol	1.8	U	1.8	10
2,4,6-Trichlorophenol	1.9	U	1.9	10
4-Chloro-3-methylphenol	1.7	U	1.7	10
2,4-Dinitrophenol	6.2	U	6.2	50
4,6-Dinitro-2-methylphenol	1.5	U	1.5	50
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.2	U	6.2	50
2-Methylphenol	2.3	U	2.3	10
2,4,5-Trichlorophenol	2.1	U	2.1	10
3 & 4 Methylphenol	2.4	U	2.4	10

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	72	29 - 121
Nitrobenzene-d5	73	34 - 130
Phenol-d5	65	25 - 128
2-Fluorobiphenyl	64	36 - 124
Terphenyl-d14	98	14 - 148
2,4,6-Tribromophenol	88	29 - 143

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 660-76626/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1657
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24017.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenol	100	52.8	53	33 - 122	
2-Chlorophenol	100	73.0	73	38 - 115	
4-Chloro-3-methylphenol	100	62.1	62	34 - 126	
Pentachlorophenol	100	77.9	78	19 - 148	
4-Nitrophenol	100	41.1	41	12 - 143	

Matrix Spike - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2024
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24027.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Phenol	2.3	U	96.2	32.4	34	33 - 122	
2-Chlorophenol	2.0	U	96.2	44.0	46	38 - 115	
4-Chloro-3-methylphenol	1.6	U	96.2	40.2	42	34 - 126	
Pentachlorophenol	1.4	U	96.2	58.1	60	19 - 148	
4-Nitrophenol	5.9	U	96.2	35.8	37	12 - 143	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: 660-28285-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2003
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24026.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Phenol	2.3	U	2.3	NC	36	U
Dimethyl phthalate	2.4	U	2.4	NC	31	U
Diethyl phthalate	2.4	U	2.4	NC	49	U
Di-n-butyl phthalate	2.4	U	2.4	NC	29	U
Butyl benzyl phthalate	1.1	U	1.1	NC	41	U
Bis(2-ethylhexyl) phthalate	2.0	I	4.10	69	26	I J3
Di-n-octyl phthalate	2.4	U	2.4	NC	33	U
2-Chlorophenol	2.0	U	2.0	NC	34	U
2-Nitrophenol	1.1	U	1.1	NC	24	U
2,4-Dimethylphenol	1.7	U	1.7	NC	43	U
2,4-Dichlorophenol	1.7	U	1.7	NC	30	U
2,4,6-Trichlorophenol	1.8	U	1.8	NC	22	U
4-Chloro-3-methylphenol	1.6	U	1.6	NC	31	U
2,4-Dinitrophenol	5.9	U	5.9	NC	63	U
4,6-Dinitro-2-methylphenol	1.4	U	1.4	NC	33	U
Pentachlorophenol	1.4	U	1.4	NC	33	U
4-Nitrophenol	5.9	U	5.9	NC	44	U
2-Methylphenol	2.2	U	2.2	NC	33	U
2,4,5-Trichlorophenol	2.0	U	2.0	NC	28	U
3 & 4 Methylphenol	2.3	U	2.3	NC	27	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: MB 660-76618/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25005.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.50	U	0.50	2.0
1-Methylnaphthalene	0.50	U	0.50	2.0
Acenaphthylene	0.25	U	0.25	1.0
Acenaphthene	0.50	U	0.50	2.0
Fluorene	0.50	U	0.50	2.0
Phenanthrene	0.20	U	0.20	0.50
Anthracene	0.076	U	0.076	0.20
Fluoranthene	0.054	U	0.054	0.50
Pyrene	0.089	U	0.089	0.50
Benzo[a]anthracene	0.050	U	0.050	0.20
Chrysene	0.069	U	0.069	0.20
Benzo[b]fluoranthene	0.050	U	0.050	0.20
Benzo[k]fluoranthene	0.057	U	0.057	0.20
Benzo[a]pyrene	0.057	U	0.057	0.20
Indeno[1,2,3-cd]pyrene	0.050	U	0.050	0.20
Dibenz(a,h)anthracene	0.050	U	0.050	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	121	30 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: LCS 660-76618/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1132
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25006.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Naphthalene	2.00	1.94	97	41 - 130	
Acenaphthene	2.00	2.09	104	36 - 121	
Fluorene	2.00	2.20	110	50 - 124	
Pyrene	2.00	2.24	112	31 - 139	
Chrysene	2.00	2.24	112	44 - 128	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	110	30 - 130

Matrix Spike - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1334
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25014.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Naphthalene	0.24	U	1.90	1.16	61	41 - 130	
Acenaphthene	0.48	U	1.90	1.24	65	36 - 121	
Fluorene	0.48	U	1.90	1.37	72	50 - 124	
Pyrene	0.086	U	1.90	1.48	78	31 - 139	
Chrysene	0.066	U	1.90	1.47	77	44 - 128	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: 660-28285-5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1303
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25012.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Naphthalene	0.24	U	0.23	NC	33	U
2-Methylnaphthalene	0.47	U	0.47	NC	30	U
1-Methylnaphthalene	0.47	U	0.47	NC	30	U
Acenaphthylene	0.24	U	0.23	NC	28	U
Acenaphthene	0.47	U	0.47	NC	35	U
Fluorene	0.47	U	0.47	NC	23	U
Phenanthrene	0.19	U	0.19	NC	20	U
Anthracene	0.072	U	0.071	NC	21	U
Fluoranthene	0.16	I	0.0697	80	24	I J3
Pyrene	0.13	I	0.084	NC	42	U
Benzo[a]anthracene	0.056	I	0.047	NC	34	U
Chrysene	0.11	I	0.065	NC	31	U
Benzo[b]fluoranthene	0.088	I	0.047	NC	32	U
Benzo[k]fluoranthene	0.054	U	0.054	NC	34	U
Benzo[a]pyrene	0.057	I	0.054	NC	24	U
Indeno[1,2,3-cd]pyrene	0.047	U	0.047	NC	38	U
Dibenz(a,h)anthracene	0.047	U	0.047	NC	35	U
Benzo[g,h,i]perylene	0.095	U	0.094	NC	39	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: MB 660-76594/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1222
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000015.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
4,4'-DDD	0.0041	U	0.0041	0.010
4,4'-DDE	0.0055	U	0.0055	0.010
4,4'-DDT	0.0032	U	0.0032	0.010
Aldrin	0.0018	U	0.0018	0.010
alpha-BHC	0.0028	U	0.0028	0.010
beta-BHC	0.0027	U	0.0027	0.010
Chlordane (technical)	0.057	U	0.057	0.50
delta-BHC	0.0028	U	0.0028	0.010
Dieldrin	0.0014	U	0.0014	0.010
Endosulfan I	0.0034	U	0.0034	0.010
Endosulfan II	0.0033	U	0.0033	0.010
Endosulfan sulfate	0.0030	U	0.0030	0.010
Endrin	0.0031	U	0.0031	0.010
Endrin aldehyde	0.0032	U	0.0032	0.010
Endrin ketone	0.0054	U	0.0054	0.10
gamma-BHC (Lindane)	0.0026	U	0.0026	0.010
Heptachlor	0.0031	U	0.0031	0.010
Heptachlor epoxide	0.0031	U	0.0031	0.010
Methoxychlor	0.0051	U	0.0051	0.010
Toxaphene	0.72	U	0.72	3.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	82	30 - 150
Tetrachloro-m-xylene	45	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: LCS 660-76594/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1236
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000016.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.502	0.483	96	37 - 150	
Aldrin	0.501	0.312	62	32 - 120	
Dieldrin	0.502	0.411	82	40 - 142	
Endrin	0.502	0.427	85	36 - 137	
gamma-BHC (Lindane)	0.501	0.420	84	24 - 118	
Heptachlor	0.502	0.382	76	34 - 114	

Matrix Spike - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28254-V-2-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1748
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J041.D
Initial Weight/Volume: 1030 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.0031	U	0.487	0.408	84	37 - 150	
Aldrin	0.0018	U	0.486	0.314	65	32 - 120	
Dieldrin	0.0014	U	0.487	0.357	73	40 - 142	
Endrin	0.0030	U	0.487	0.381	78	36 - 137	
gamma-BHC (Lindane)	0.0025	U	0.487	0.354	73	24 - 118	
Heptachlor	0.0030	U	0.487	0.362	74	34 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76594

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28254-G-1-B DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1303
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76770
Prep Batch: 660-76594
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C23J000018.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
4,4'-DDD	0.0039	U	0.0039	NC	39	U
4,4'-DDE	0.0052	U	0.0052	NC	18	U
4,4'-DDT	0.0030	U	0.0030	NC	27	U
Aldrin	0.0017	U	0.0017	NC	25	U
alpha-BHC	0.0027	U	0.0027	NC	30	U
beta-BHC	0.0025	U	0.0025	NC	35	U
Chlordane (technical)	0.054	U	0.054	NC	30	U
delta-BHC	0.0026	U	0.0026	NC	41	U
Dieldrin	0.0013	U	0.0013	NC	42	U
Endosulfan I	0.0032	U	0.0032	NC	24	U
Endosulfan II	0.0031	U	0.0031	NC	22	U
Endosulfan sulfate	0.0028	U	0.0028	NC	28	U
Endrin	0.0030	U	0.0030	NC	25	U
Endrin aldehyde	0.0030	U	0.0030	NC	34	U
Endrin ketone	0.0051	U	0.0051	NC	25	U
gamma-BHC (Lindane)	0.0025	U	0.0025	NC	26	U
Heptachlor	0.0029	U	0.0029	NC	26	U
Heptachlor epoxide	0.0030	U	0.0030	NC	31	U
Methoxychlor	0.0048	U	0.0048	NC	43	U
Toxaphene	0.68	U	0.68	NC	30	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: MB 660-76627/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1320
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J021.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
4,4'-DDD	0.0041	U	0.0041	0.010
4,4'-DDE	0.0055	U	0.0055	0.010
4,4'-DDT	0.0032	U	0.0032	0.010
Aldrin	0.0018	U	0.0018	0.010
alpha-BHC	0.0028	U	0.0028	0.010
beta-BHC	0.0027	U	0.0027	0.010
Chlordane (technical)	0.057	U	0.057	0.50
delta-BHC	0.0028	U	0.0028	0.010
Dieldrin	0.0014	U	0.0014	0.010
Endosulfan I	0.0034	U	0.0034	0.010
Endosulfan II	0.0033	U	0.0033	0.010
Endosulfan sulfate	0.0030	U	0.0030	0.010
Endrin	0.0031	U	0.0031	0.010
Endrin aldehyde	0.0032	U	0.0032	0.010
Endrin ketone	0.0054	U	0.0054	0.10
gamma-BHC (Lindane)	0.0026	U	0.0026	0.010
Heptachlor	0.0031	U	0.0031	0.010
Heptachlor epoxide	0.0031	U	0.0031	0.010
Methoxychlor	0.0051	U	0.0051	0.010
Toxaphene	0.72	U	0.72	3.0

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	79		30 - 150
Tetrachloro-m-xylene	25	J1	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: LCS 660-76627/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1333
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J022.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.502	0.436	87	37 - 150	
Aldrin	0.501	0.199	40	32 - 120	
Dieldrin	0.502	0.374	75	40 - 142	
Endrin	0.502	0.386	77	36 - 137	
gamma-BHC (Lindane)	0.501	0.376	75	24 - 118	
Heptachlor	0.502	0.249	50	34 - 114	

Matrix Spike - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28285-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1534
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J031.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.0030	U	0.483	0.439	91	37 - 150	
Aldrin	0.0017	U	0.482	0.285	59	32 - 120	
Dieldrin	0.0013	U	0.482	0.348	72	40 - 142	
Endrin	0.0030	U	0.483	0.370	77	36 - 137	
gamma-BHC (Lindane)	0.0025	U	0.482	0.340	71	24 - 118	
Heptachlor	0.0029	U	0.482	0.346	72	34 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28285-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1601
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J033.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
4,4'-DDD	0.0041	U	0.0040	NC	39	U
4,4'-DDE	0.0055	U	0.0054	NC	18	U
4,4'-DDT	0.0032	U	0.0031	NC	27	U
Aldrin	0.0018	U	0.0018	NC	25	U
alpha-BHC	0.0028	U	0.0027	NC	30	U
beta-BHC	0.0027	U	0.0026	NC	35	U
Chlordane (technical)	0.057	U	0.056	NC	30	U
delta-BHC	0.0028	U	0.0027	NC	41	U
Dieldrin	0.0014	U	0.0014	NC	42	U
Endosulfan I	0.0034	U	0.0034	NC	24	U
Endosulfan II	0.0033	U	0.0032	NC	22	U
Endosulfan sulfate	0.0030	U	0.0029	NC	28	U
Endrin	0.0031	U	0.0031	NC	25	U
Endrin aldehyde	0.0032	U	0.0031	NC	34	U
Endrin ketone	0.0054	U	0.0053	NC	25	U
gamma-BHC (Lindane)	0.0026	U	0.0026	NC	26	U
Heptachlor	0.0031	U	0.0030	NC	26	U
Heptachlor epoxide	0.0031	U	0.0031	NC	31	U
Methoxychlor	0.0051	U	0.0050	NC	43	U
Toxaphene	0.72	U	0.71	NC	30	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 660-76594/15-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1157
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K014.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
PCB-1016	0.26	U	0.26	0.50
PCB-1221	0.15	U	0.15	0.50
PCB-1232	0.38	U	0.38	0.50
PCB-1242	0.077	U	0.077	0.50
PCB-1248	0.070	U	0.070	0.50
PCB-1254	0.12	U	0.12	0.50
PCB-1260	0.10	U	0.10	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	30 - 150
Tetrachloro-m-xylene	39	30 - 150

Lab Control Spike - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 660-76594/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1210
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K015.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	3.32	66	45 - 134	
PCB-1260	5.00	3.82	76	41 - 144	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28254-U-4-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1856
Date Prepared: 03/21/2009 1429

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K044.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	0.25	U	4.81	2.95	61	45 - 134	
PCB-1260	0.096	U	4.81	3.10	65	41 - 144	

Duplicate - Batch: 660-76594

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1237
Date Prepared: 03/21/2009 1418

Analysis Batch: 660-76838
Prep Batch: 660-76594
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C23K017.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
PCB-1016	0.24	U	0.25	NC	34	U
PCB-1221	0.14	U	0.14	NC	110	U
PCB-1232	0.36	U	0.36	NC	86	U
PCB-1242	0.072	U	0.073	NC	74	U
PCB-1248	0.066	U	0.066	NC	30	U
PCB-1254	0.11	U	0.11	NC	39	U
PCB-1260	0.094	U	0.095	NC	34	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 660-76627/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1237
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K019.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
PCB-1016	0.26	U	0.26	0.50
PCB-1221	0.15	U	0.15	0.50
PCB-1232	0.38	U	0.38	0.50
PCB-1242	0.077	U	0.077	0.50
PCB-1248	0.070	U	0.070	0.50
PCB-1254	0.12	U	0.12	0.50
PCB-1260	0.10	U	0.10	0.50

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	74		30 - 150
Tetrachloro-m-xylene	26	J1	30 - 150

Lab Control Spike - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 660-76627/19-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1250
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K020.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	3.56	71	45 - 134	
PCB-1260	5.00	5.19	104	41 - 144	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28303-J-2-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1445
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K028.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	0.25	U	4.81	2.98	62	45 - 134	
PCB-1260	0.096	U	4.81	4.30	89	41 - 144	

Duplicate - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28285-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1339
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K023.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
PCB-1016	0.26	U	0.25	NC	34	U
PCB-1221	0.15	U	0.15	NC	110	U
PCB-1232	0.38	U	0.37	NC	86	U
PCB-1242	0.077	U	0.075	NC	74	U
PCB-1248	0.070	U	0.069	NC	30	U
PCB-1254	0.12	U	0.12	NC	39	U
PCB-1260	0.10	U	0.098	NC	34	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 640-54931

Method: 8141A
Preparation: 3520C

Lab Sample ID: MB 640-54931/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2053
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 1C25F20.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Guthion	0.33	U	0.33	1.0
Bolstar	0.095	U	0.095	1.0
Chlorpyrifos	0.11	U	0.11	1.0
Coumaphos	0.081	U	0.081	1.0
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U	0.11	1.0
Dichlorvos	0.26	U	0.26	2.0
Dimethoate	0.32	U	0.32	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.071	U	0.071	1.0
Ethion	0.11	U	0.11	0.50
Ethoprop	0.41	U	0.41	0.50
Ethyl Parathion	0.080	U	0.080	1.0
Fensulfothion	0.17	U	0.17	5.0
Malathion	0.092	U	0.092	1.0
Merphos	0.13	U	0.13	1.0
Methyl parathion	0.12	U	0.12	0.50
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.6	U	2.6	10
Naled	0.36	U	0.36	5.0
Phorate	0.16	U	0.16	1.0
Ronnel	0.13	U	0.13	1.0
Stirophos	0.084	U	0.084	1.0
Sulfotepp	0.055	U	0.055	0.50
Tokuthion	0.087	U	0.087	1.0
Trichloronate	0.11	U	0.11	1.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate (TPP)	102	37 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

LCS Lab Sample ID: LCS 640-54931/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1022
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 2C25F40.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 640-54931/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1036
Date Prepared: 03/23/2009 1630

Analysis Batch: 640-55086
Prep Batch: 640-54931
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 2C25F41.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Diazinon	107	110	42 - 132	3	30		
Ethyl Parathion	96	103	49 - 134	7	30		
Methyl parathion	104	108	43 - 140	3	30		
Ronnel	88	95	38 - 124	8	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Triphenylphosphate (TPP)	101	114	37 - 139

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

LCS Lab Sample ID: LCS 640-54931/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1022
Date Prepared: 03/23/2009 1630

Units: ug/L

LCSD Lab Sample ID: LCSD 640-54931/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1036
Date Prepared: 03/23/2009 1630

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Diazinon	2.50	2.50	2.67	2.76
Ethyl Parathion	2.50	2.50	2.41	2.58
Methyl parathion	2.50	2.50	2.61	2.69
Ronnel	2.50	2.50	2.20	2.38

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	660-28254-A-1-A MS	Analysis Batch: 640-55086	Instrument ID: SGF Varian 3400
Client Matrix:	Water	Prep Batch: 640-54931	Lab File ID: 2C25F38.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	03/26/2009 0955		Final Weight/Volume: 2.5 mL
Date Prepared:	03/23/2009 1630		Injection Volume: 1 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	660-28254-A-1-B MSD	Analysis Batch: 640-55086	Instrument ID: SGF Varian 3400
Client Matrix:	Water	Prep Batch: 640-54931	Lab File ID: 2C25F39.d
Dilution:	1.0		Initial Weight/Volume: 500 mL
Date Analyzed:	03/26/2009 1008		Final Weight/Volume: 2.5 mL
Date Prepared:	03/23/2009 1630		Injection Volume: 1 uL
			Column ID: PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diazinon	79	111	24 - 129	34	30		J3
Ethyl Parathion	80	105	32 - 138	28	44		
Methyl parathion	84	112	32 - 137	29	48		
Ronnel	73	99	30 - 135	29	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Triphenylphosphate (TPP)	88	111	37 - 139

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-54931

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	660-28254-A-1-A MS	Units: ug/L	MSD Lab Sample ID: 660-28254-A-1-B MSI
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/26/2009 0955		Date Analyzed: 03/26/2009 1008
Date Prepared:	03/23/2009 1630		Date Prepared: 03/23/2009 1630

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Diazinon	0.11	U	2.50	2.50	1.97	2.78	J3
Ethyl Parathion	0.080	U	2.50	2.50	1.99	2.63	
Methyl parathion	0.12	U	2.50	2.50	2.10	2.80	
Ronnel	0.13	U	2.50	2.50	1.83	2.47	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76598

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 660-76598/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 0020
Date Prepared: 03/22/2009 0837

Analysis Batch: 660-76774
Prep Batch: 660-76598
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J067.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
2,4,5-T	1.0	U	1.0	5.0
2,4-D	1.0	U	1.0	5.0
2,4-DB	1.0	U	1.0	5.0
Dalapon	25	U	25	120
Dicamba	0.25	U	0.25	1.2
Dichlorprop	1.0	U	1.0	6.0
Dinoseb	1.0	U	1.0	6.0
MCPA	34	U	34	120
MCPP	35	U	35	120
Pentachlorophenol	0.085	U	0.085	1.0
Picloram	1.0	U	1.0	5.0
Silvex (2,4,5-TP)	1.0	U	1.0	5.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	69	33 - 120

Lab Control Spike - Batch: 660-76598

Method: 8151A
Preparation: 8151A

Lab Sample ID: LCS 660-76598/2-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/25/2009 0036
Date Prepared: 03/22/2009 0837

Analysis Batch: 660-76774
Prep Batch: 660-76598
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J068.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	10.0	8.93	89	15 - 155	
2,4-D	10.0	8.77	88	10 - 166	
Silvex (2,4,5-TP)	10.0	6.54	65	25 - 139	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike - Batch: 660-76598

Method: 8151A
Preparation: 8151A

Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/25/2009 0154
Date Prepared: 03/22/2009 0837

Analysis Batch: 660-76774
Prep Batch: 660-76598
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J073.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
2,4,5-T	0.96	U	9.62	8.81	92	15 - 155	
2,4-D	0.96	U	9.62	8.71	91	10 - 166	
Silvex (2,4,5-TP)	0.96	U	9.62	6.64	69	25 - 139	

Duplicate - Batch: 660-76598

Method: 8151A
Preparation: 8151A

Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 0123
Date Prepared: 03/22/2009 0837

Analysis Batch: 660-76774
Prep Batch: 660-76598
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J071.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
2,4,5-T	0.94	U	0.94	NC	48	U
2,4-D	0.94	U	0.94	NC	78	U
2,4-DB	0.94	U	0.94	NC	43	U
Dalapon	23	U	23	NC	68	U
Dicamba	0.23	U	0.23	NC	46	U
Dichlorprop	0.94	U	0.94	NC	95	U
Dinoseb	0.94	U	0.94	NC	115	U
MCPA	32	U	32	NC	28	U
MCPP	33	U	33	NC	78	U
Pentachlorophenol	0.080	U	0.080	NC	34	U
Picloram	0.94	U	0.94	NC	56	U
Silvex (2,4,5-TP)	0.94	U	0.94	NC	66	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76768

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 660-76768/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 2332
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J044.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
2,4,5-T	1.0	U	1.0	5.0
2,4-D	1.0	U	1.0	5.0
2,4-DB	1.0	U	1.0	5.0
Dalapon	25	U	25	120
Dicamba	0.25	U	0.25	1.2
Dichlorprop	1.0	U	1.0	6.0
Dinoseb	1.0	U	1.0	6.0
MCPA	34	U	34	120
MCPP	35	U	35	120
Pentachlorophenol	0.085	U	0.085	1.0
Picloram	1.0	U	1.0	5.0
Silvex (2,4,5-TP)	1.0	U	1.0	5.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	70	33 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-76768

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 660-76768/2-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/26/2009 2347
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J045.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 660-76768/3-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/27/2009 0003
Date Prepared: 03/25/2009 1448

Analysis Batch: 660-76878
Prep Batch: 660-76768
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C26J046.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
2,4,5-T	100	91	15 - 155	10	48		
2,4-D	90	83	10 - 166	8	78		
Silvex (2,4,5-TP)	83	74	25 - 139	11	66		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 660-76768

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 660-76768/2-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/26/2009 2347
Date Prepared: 03/25/2009 1448

Units: ug/L

LCSD Lab Sample ID: LCSD 660-76768/3-A
Client Matrix: Water
Dilution: 4.0
Date Analyzed: 03/27/2009 0003
Date Prepared: 03/25/2009 1448

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2,4,5-T	10.0	10.0	10.0	9.08
2,4-D	10.0	10.0	8.97	8.27
Silvex (2,4,5-TP)	10.0	10.0	8.25	7.38

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

Lab Sample ID: MB 680-133471/23-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1212
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result	Qual	MDL	PQL
SiO2, Silica	100	U	100	500

Lab Control Spike - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

Lab Sample ID: LCS 680-133471/24-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1214
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
SiO2, Silica	10000	9690	97	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

MS Lab Sample ID: 660-28233-D-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1325
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

MSD Lab Sample ID: 660-28233-D-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1328
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
SiO2, Silica	66	67	75 - 125	0	20	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

MS Lab Sample ID:	660-28233-D-1-B MS	Units: ug/L	MSD Lab Sample ID:	660-28233-D-1-C MS	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	03/25/2009 1325		Date Analyzed:	03/25/2009 1328	
Date Prepared:	N/A		Date Prepared:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
SiO2, Silica	49000	10000	10000	55400	J3	55500	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 680-134092

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-134092/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1650
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	15	U	15	50
Arsenic	0.28	I	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	50	U	50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.90	I	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	12	U	12	100
Potassium	40	U	40	250
Magnesium	14	U	14	250
Manganese	0.95	U	0.95	5.0
Sodium	90	U	90	250
Lead	0.15	U	0.15	1.5
Antimony	0.55	I	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0
Nickel	0.60	I	0.32	1.0
Zinc	6.5	U	6.5	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike - Batch: 680-134092

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-134092/13-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1657
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	49.8	100	75 - 125	
Aluminum	5000	4990	100	75 - 125	
Arsenic	100	105	105	75 - 125	
Beryllium	50.0	50.5	101	75 - 125	
Calcium	5000	5180	104	75 - 125	
Cadmium	50.0	52.2	104	75 - 125	
Chromium	100	102	102	75 - 125	
Copper	100	106	106	75 - 125	
Iron	5000	5140	103	75 - 125	
Potassium	5000	4830	97	75 - 125	
Magnesium	5000	5210	104	75 - 125	
Manganese	500	524	105	75 - 125	
Sodium	5000	5020	100	75 - 125	
Lead	50.0	49.8	100	75 - 125	
Antimony	50.0	51.9	104	75 - 125	
Selenium	100	106	106	75 - 125	
Thallium	40.0	40.5	101	75 - 125	
Nickel	100	105	105	75 - 125	
Zinc	100	106	106	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-134092

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1724
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1730
Date Prepared: 04/01/2009 1136

Analysis Batch: 680-134194
Prep Batch: 680-134092

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	96	94	75 - 125	2	20		
Aluminum	97	95	75 - 125	1	20		
Arsenic	104	102	75 - 125	1	20		
Beryllium	98	99	75 - 125	1	20		
Calcium	119	96	75 - 125	2	20		
Cadmium	100	98	75 - 125	2	20		
Chromium	98	96	75 - 125	2	20		
Copper	85	83	75 - 125	2	20		
Iron	105	99	75 - 125	2	20		
Potassium	95	90	75 - 125	3	20		
Magnesium	106	97	75 - 125	2	20		
Manganese	101	98	75 - 125	3	20		
Sodium	107	91	75 - 125	3	20		
Lead	95	92	75 - 125	3	20		
Antimony	103	101	75 - 125	3	20		
Selenium	101	100	75 - 125	1	20		
Thallium	96	95	75 - 125	1	20		
Nickel	101	100	75 - 125	1	20		
Zinc	95	93	75 - 125	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-134092

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1724
Date Prepared: 04/01/2009 1136

Units: ug/L

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1730
Date Prepared: 04/01/2009 1136

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Silver	0.090	U	50.0	50.0	47.9	46.8
Aluminum	330		5000	5000	5160	5080
Arsenic	20		100	100	124	123
Beryllium	0.065	U	50.0	50.0	48.9	49.6
Calcium	46000		5000	5000	52000	50800
Cadmium	0.34	I	50.0	50.0	50.4	49.4
Chromium	1.1	I	100	100	99.6	97.4
Copper	16		100	100	102	99.4
Iron	9000		5000	5000	14300	14000
Potassium	4600		5000	5000	9310	9080
Magnesium	19000		5000	5000	24700	24300
Manganese	15		500	500	519	504
Sodium	24000		5000	5000	29000	28200
Lead	0.15	U	50.0	50.0	47.3	46.1
Antimony	2.4	I	50.0	50.0	54.1	52.8
Selenium	0.60	U	100	100	101	100
Thallium	1.1		40.0	40.0	39.6	39.0
Nickel	8.9		100	100	110	108
Zinc	6.7	I	100	100	102	99.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 680-134094

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-134094/21-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1912
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	53	I	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.81	I	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	12	U	12	100
Potassium, Dissolved	40	U	40	250
Magnesium, Dissolved	14	U	14	250
Manganese, Dissolved	0.95	U	0.95	5.0
Sodium, Dissolved	90	U	90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.44	I	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.55	I	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Lab Control Spike - Batch: 680-134094

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-134094/22-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1919
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver, Dissolved	50.0	46.6	93	75 - 125	
Aluminum, Dissolved	5000	4700	94	75 - 125	
Arsenic, Dissolved	100	100	100	75 - 125	
Beryllium, Dissolved	50.0	48.3	97	75 - 125	
Calcium, Dissolved	5000	4840	97	75 - 125	
Cadmium, Dissolved	50.0	48.6	97	75 - 125	
Chromium, Dissolved	100	95.4	95	75 - 125	
Copper, Dissolved	100	99.1	99	75 - 125	
Iron, Dissolved	5000	4830	97	75 - 125	
Potassium, Dissolved	5000	4540	91	75 - 125	
Magnesium, Dissolved	5000	4900	98	75 - 125	
Manganese, Dissolved	500	487	97	75 - 125	
Sodium, Dissolved	5000	4760	95	75 - 125	
Lead, Dissolved	50.0	46.2	92	75 - 125	
Antimony, Dissolved	50.0	48.6	97	75 - 125	
Selenium, Dissolved	100	98.0	98	75 - 125	
Thallium, Dissolved	40.0	37.6	94	75 - 125	
Nickel, Dissolved	100	99.0	99	75 - 125	
Zinc, Dissolved	100	97.1	97	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-134094

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 680-45917-B-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 2047
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 680-45917-B-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 2053
Date Prepared: 04/01/2009 1141

Analysis Batch: 680-134194
Prep Batch: 680-134094

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver, Dissolved	104	102	75 - 125	2	20		
Aluminum, Dissolved	106	108	75 - 125	2	20		
Arsenic, Dissolved	112	111	75 - 125	1	20		
Beryllium, Dissolved	104	101	75 - 125	3	20		
Calcium, Dissolved	112	112	75 - 125	0	20		
Cadmium, Dissolved	108	105	75 - 125	3	20		
Chromium, Dissolved	107	107	75 - 125	0	20		
Copper, Dissolved	112	113	75 - 125	1	20		
Iron, Dissolved	118	113	75 - 125	1	20		
Potassium, Dissolved	105	104	75 - 125	1	20		
Magnesium, Dissolved	110	111	75 - 125	0	20		
Manganese, Dissolved	126	109	75 - 125	3	20	J3	
Sodium, Dissolved	108	108	75 - 125	0	20		
Lead, Dissolved	102	100	75 - 125	1	20		
Antimony, Dissolved	106	104	75 - 125	2	20		
Selenium, Dissolved	111	114	75 - 125	2	20		
Thallium, Dissolved	105	104	75 - 125	2	20		
Nickel, Dissolved	111	111	75 - 125	1	20		
Zinc, Dissolved	106	106	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-134094

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID: 680-45917-B-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 2047
Date Prepared: 04/01/2009 1141

Units: ug/L

MSD Lab Sample ID: 680-45917-B-1-C MSI
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 2053
Date Prepared: 04/01/2009 1141

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Silver, Dissolved	0.090	U	50.0	50.0	52.0		51.0
Aluminum, Dissolved	28	I	5000	5000	5330		5430
Arsenic, Dissolved	5.4		100	100	117		116
Beryllium, Dissolved	0.065	U	50.0	50.0	52.2		50.6
Calcium, Dissolved	6800		5000	5000	12300		12400
Cadmium, Dissolved	0.12	U	50.0	50.0	54.0		52.6
Chromium, Dissolved	1.1	I	100	100	108		108
Copper, Dissolved	1.2	U	100	100	112		113
Iron, Dissolved	17000		5000	5000	23100		22800
Potassium, Dissolved	1700		5000	5000	6950		6880
Magnesium, Dissolved	7500		5000	5000	13000		13000
Manganese, Dissolved	2000		500	500	2670	J3	2590
Sodium, Dissolved	1900		5000	5000	7280		7310
Lead, Dissolved	0.15	U	50.0	50.0	50.9		50.2
Antimony, Dissolved	0.36	U	50.0	50.0	53.0		52.2
Selenium, Dissolved	0.60	U	100	100	111		114
Thallium, Dissolved	0.55	U	40.0	40.0	42.1		41.4
Nickel, Dissolved	18		100	100	129		130
Zinc, Dissolved	21		100	100	127		126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76609

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 660-76609/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1513
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020
Mercury, Dissolved	0.000072	U	0.000072	0.00020

Lab Control Spike - Batch: 660-76609

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 660-76609/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1515
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.000929	93	80 - 120	
Mercury, Dissolved	0.00100	0.000929	93	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76609

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1521
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1523
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	94	94	80 - 120	0	20		
Mercury, Dissolved	94	94	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76609

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1521
Date Prepared: 03/23/2009 0908

Units: mg/L

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1523
Date Prepared: 03/23/2009 0908

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.000072 U	0.00100	0.00100	0.000945	0.000942
Mercury, Dissolved	0.000072 U	0.00100	0.00100	0.000945	0.000942

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 680-135370

Method: SM 2340B
Preparation: N/A

Lab Sample ID: MB 680-135370/1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 04/01/2009 1650
Date Prepared: N/A

Analysis Batch: 680-135370
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	PQL	PQL
Hardness as calcium carbonate	16	U	16	16
Calcium hardness as calcium carbonate	6.0	U	6.0	6.0
Magnesium hardness as calcium carbonate	10	U	10	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: MB 660-76613/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0917
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Specific Conductance	5.0	U	5.0	5.0

Lab Control Spike - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: LCS 660-76613/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0919
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1000	989	99	90 - 110	

Duplicate - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: 660-28228-L-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0922
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	23000	23000	0.926		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 660-76612/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	PQL
HEM (Oil and Grease)	1.0	U	1.0	5.0

Lab Control Spike - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 660-76612/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	40.0	38.0	95	78 - 114	

Matrix Spike - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28188-J-1-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	1.6	I	41.7	32.9	75	78 - 114	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28187-G-1-B DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
HEM (Oil and Grease)	0.95	U	1.83	NC		I

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76745

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 660-76745/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1140
Date Prepared: 03/25/2009 1044

Analysis Batch: 660-76813
Prep Batch: 660-76745
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	PQL
HEM (Oil and Grease)	1.0	U	1.0	5.0

Lab Control Spike - Batch: 660-76745

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 660-76745/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1140
Date Prepared: 03/25/2009 1044

Analysis Batch: 660-76813
Prep Batch: 660-76745
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	40.0	40.9	102	78 - 114	

Matrix Spike - Batch: 660-76745

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28285-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1140
Date Prepared: 03/25/2009 1044

Analysis Batch: 660-76813
Prep Batch: 660-76745
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	0.96	U	38.5	35.1	91	78 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76745

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28123-B-1-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1140
Date Prepared: 03/25/2009 1044

Analysis Batch: 660-76813
Prep Batch: 660-76745
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
HEM (Oil and Grease)	0.95	0.96	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76842

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 660-76842/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1512
Date Prepared: 03/26/2009 1456

Analysis Batch: 660-76926
Prep Batch: 660-76842
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	PQL
HEM (Oil and Grease)	1.0	U	1.0	5.0

Lab Control Spike - Batch: 660-76842

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 660-76842/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1512
Date Prepared: 03/26/2009 1456

Analysis Batch: 660-76926
Prep Batch: 660-76842
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	40.0	41.3	103	78 - 114	

Matrix Spike - Batch: 660-76842

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1512
Date Prepared: 03/26/2009 1456

Analysis Batch: 660-76926
Prep Batch: 660-76842
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	1.5	I	38.5	36.9	92	78 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76842

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28218-S-1-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1512
Date Prepared: 03/26/2009 1456

Analysis Batch: 660-76926
Prep Batch: 660-76842
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
HEM (Oil and Grease)	2.8	I	1.42	64		I

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76981

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-76981/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1659
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Chloride	0.20	U	0.20	0.50
Fluoride	0.020	U	0.020	0.050
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-76981

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-76981/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1724
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	10.0	10.8	108	90 - 110	
Fluoride	1.00	1.07	107	90 - 110	

Lab Control Spike - Batch: 660-76981

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-76981/37
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1401
Date Prepared: N/A

Analysis Batch: 660-76981
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	10.0	9.38	94	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28257-E-3 MS	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/30/2009 1453			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28257-E-3 MSD	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/30/2009 1519			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	102	102	90 - 110	0	30		
Sulfate	103	103	90 - 110	0	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28287-E-7 MS ^4	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	8.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 0021			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28287-E-7 MSD ^4	Analysis Batch:	660-76981	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	8.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 0113			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	109	110	90 - 110	0	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28287-E-7 MS ^10	Analysis Batch: 660-76981	Instrument ID: ICS 2000
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	20		Initial Weight/Volume:
Date Analyzed:	03/31/2009 0047		Final Weight/Volume: 2 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	660-28287-E-7 MSD ^10	Analysis Batch: 660-76981	Instrument ID: ICS 2000
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	20		Initial Weight/Volume:
Date Analyzed:	03/31/2009 0139		Final Weight/Volume: 2 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	126	134	90 - 110	2	30	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28257-E-3 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1453
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28257-E-3 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/30/2009 1519
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	24	10.0	10.0	33.9	34.0
Sulfate	24	10.0	10.0	34.3	34.3

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28287-E-7 MS ^4
Client Matrix: Water
Dilution: 8.0
Date Analyzed: 03/31/2009 0021
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28287-E-7 MSD ^
Client Matrix: Water
Dilution: 8.0
Date Analyzed: 03/31/2009 0113
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	63	40.0	40.0	107	107

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76981

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28287-E-7 MS ^10
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/31/2009 0047
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28287-E-7 MSD ^
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/31/2009 0139
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Sulfate	250	100	100	380	J3	387	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76886

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: MB 660-76886/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1700
Date Prepared: 03/25/2009 1400

Analysis Batch: 660-76888
Prep Batch: 660-76886
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	PQL
Cyanide	0.0062	U	0.0062	0.020

Lab Control Spike - Batch: 660-76886

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: LCS 660-76886/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1700
Date Prepared: 03/25/2009 1400

Analysis Batch: 660-76888
Prep Batch: 660-76886
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide	0.0500	0.0502	100	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76886

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1700
Date Prepared: 03/25/2009 1400

Analysis Batch: 660-76888
Prep Batch: 660-76886

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1700
Date Prepared: 03/25/2009 1400

Analysis Batch: 660-76888
Prep Batch: 660-76886

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide	102	93	90 - 110	9	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76886

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID:	660-28285-1	Units: mg/L	MSD Lab Sample ID:	660-28285-1	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	03/25/2009 1700		Date Analyzed:	03/25/2009 1700	
Date Prepared:	03/25/2009 1400		Date Prepared:	03/25/2009 1400	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide	0.0062	U	0.0500	0.0500	0.0511	0.0467

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76832

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 660-76832/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1300
Date Prepared: N/A

Analysis Batch: 660-76832
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	PQL
Ammonia (as N)	0.010	U	0.010	0.020

Lab Control Spike - Batch: 660-76832

Method: 350.1
Preparation: N/A

Lab Sample ID: LCS 660-76832/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1301
Date Prepared: N/A

Analysis Batch: 660-76832
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	0.500	0.496	99	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76832

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1314
Date Prepared: N/A

Analysis Batch: 660-76832
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1315
Date Prepared: N/A

Analysis Batch: 660-76832
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	98	99	90 - 110	0	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76832

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1314
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1315
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	1.8	1.00	1.00	2.76	2.77

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76611

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 660-76611/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1417
Date Prepared: N/A

Analysis Batch: 660-76611
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Nitrate Nitrite as N	0.10	U	0.10	0.50
Nitrite as N	0.10	U	0.10	0.50

Lab Control Spike - Batch: 660-76611

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 660-76611/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1417
Date Prepared: N/A

Analysis Batch: 660-76611
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	1.00	0.971	97	90 - 110	
Nitrite as N	1.00	0.937	94	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76611

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1417
Date Prepared: N/A

Analysis Batch: 660-76611
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1417
Date Prepared: N/A

Analysis Batch: 660-76611
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate Nitrite as N	98	108	90 - 110	10	30		
Nitrite as N	95	97	90 - 110	2	30		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76611

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1417
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1417
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	0.10	U	1.00	1.00	0.981	1.08
Nitrite as N	0.10	U	1.00	1.00	0.952	0.973

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 660-76653/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1239
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Alkalinity	1.0	U	1.0	1.0
Bicarbonate Alkalinity as CaCO3	1.0	U	1.0	1.0
Carbonate Alkalinity as CaCO3	1.0	U	1.0	1.0

Lab Control Spike - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: LCS 660-76653/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1247
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	118	120	101	80 - 120	

Duplicate - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: 660-28254-AC-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1258
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Alkalinity	200		194	0.791		
Bicarbonate Alkalinity as CaCO3	200		194	0.791		
Carbonate Alkalinity as CaCO3	1.0	U	1.0	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 640-55056

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55056/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1434
Date Prepared: N/A

Analysis Batch: 640-55056
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55056

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55056/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1434
Date Prepared: N/A

Analysis Batch: 640-55056
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55056/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1434
Date Prepared: N/A

Analysis Batch: 640-55056
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	95	100	80 - 120	5	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55056

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55056/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1434
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55056/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1434
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	284	300

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 640-55054

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 640-55054/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1429
Date Prepared: N/A

Analysis Batch: 640-55054
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Suspended Solids	0.48	U	0.48	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55054

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 640-55054/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1430
Date Prepared: N/A

Analysis Batch: 640-55054
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55054/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1430
Date Prepared: N/A

Analysis Batch: 640-55054
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Suspended Solids	96	100	80 - 120	4	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55054

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 640-55054/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1430
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55054/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1430
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Suspended Solids	100	100	96.0	100

Duplicate - Batch: 640-55054

Method: SM 2540D
Preparation: N/A

Lab Sample ID: 660-28268-D-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1551
Date Prepared: N/A

Analysis Batch: 640-55054
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 300 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	14	14.7	5	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

Lab Sample ID: MB 660-76488/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Analysis Batch: 660-76488
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Chromium (hexavalent)	0.0014	U	0.0014	0.010

Lab Control Spike - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

Lab Sample ID: LCS 660-76488/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1000
Date Prepared: N/A

Analysis Batch: 660-76488
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	0.200	0.180	90	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1900
Date Prepared: N/A

Analysis Batch: 660-76488
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1900
Date Prepared: N/A

Analysis Batch: 660-76488
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium (hexavalent)	76	74	85 - 115	1	20	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76488

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1900
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1900
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chromium (hexavalent)	0.0014 U	0.200	0.200	0.151 J3	0.149 J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76582

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: MB 660-76582/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1900
Date Prepared: N/A

Analysis Batch: 660-76582
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 20 mL

Analyte	Result	Qual	NONE	NONE
pH	7.00			

Lab Control Spike - Batch: 660-76582

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: LCS 660-76582/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1900
Date Prepared: N/A

Analysis Batch: 660-76582
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.00	6.020	100	98 - 102	

Duplicate - Batch: 660-76582

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: 660-28285-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2009 1900
Date Prepared: N/A

Analysis Batch: 660-76582
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	5.65	5.650	0		Q

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76587

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: MB 660-76587/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analysis Batch: 660-76587
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	PQL	PQL
Sulfide	1.0	U	1.0	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-76587

Method: SM 4500 S2 F
Preparation: N/A

LCS Lab Sample ID: LCS 660-76587/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analysis Batch: 660-76587
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

LCSD Lab Sample ID: LCSD 660-76587/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analysis Batch: 660-76587
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Sulfide	98	96	75 - 125	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 660-76587

Method: SM 4500 S2 F
Preparation: N/A

LCS Lab Sample ID: LCS 660-76587/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 660-76587/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1830
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sulfide	20.0	20.0	19.5	19.2

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Unseeded Control Blank - Batch: 660-76554

Method: SM 5210B
Preparation: N/A

Lab Sample ID: USB 660-76554/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1010
Date Prepared: N/A

Analysis Batch: 660-76554
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Result	Qual	PQL	PQL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Seeded Control Blank - Batch: 660-76554

Method: SM 5210B
Preparation: N/A

Lab Sample ID: SCB 660-76554/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1011
Date Prepared: N/A

Analysis Batch: 660-76554
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Result	Qual	PQL	PQL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Lab Control Spike - Batch: 660-76554

Method: SM 5210B
Preparation: N/A

Lab Sample ID: LCS 660-76554/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1013
Date Prepared: N/A

Analysis Batch: 660-76554
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	185	94	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Duplicate - Batch: 660-76554

Method: SM 5210B
Preparation: N/A

Lab Sample ID: 660-28285-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1601
Date Prepared: N/A

Analysis Batch: 660-76554
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Biochemical Oxygen Demand	2.0	U	2.0	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 640-54987

Method: SM 5310C
Preparation: N/A

Lab Sample ID: MB 640-54987/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2009 1604
Date Prepared: N/A

Analysis Batch: 640-54987
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	PQL
Total Organic Carbon	0.10	U	0.10	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-54987

Method: SM 5310C
Preparation: N/A

LCS Lab Sample ID: LCS 640-54987/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2009 1620
Date Prepared: N/A

Analysis Batch: 640-54987
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 640-54987/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2009 1635
Date Prepared: N/A

Analysis Batch: 640-54987
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Organic Carbon	104	105	80 - 120	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-54987

Method: SM 5310C
Preparation: N/A

LCS Lab Sample ID: LCS 640-54987/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2009 1620
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-54987/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/22/2009 1635
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon	10.0	10.0	10.4	10.5

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-54987

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID: 640-21208-L-2 MS
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/23/2009 0958
Date Prepared: N/A

Analysis Batch: 640-54987
Prep Batch: N/A

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 640-21208-L-2 MSD
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/23/2009 1012
Date Prepared: N/A

Analysis Batch: 640-54987
Prep Batch: N/A

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon	98	98	80 - 120	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-54987

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID: 640-21208-L-2 MS
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/23/2009 0958
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 640-21208-L-2 MSD
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/23/2009 1012
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon	66	100	100	164	164

Duplicate - Batch: 640-54987

Method: SM 5310C
Preparation: N/A

Lab Sample ID: 640-21208-L-3 DU
Client Matrix: Water
Dilution: 20
Date Analyzed: 03/23/2009 1038
Date Prepared: N/A

Analysis Batch: 640-54987
Prep Batch: N/A
Units: mg/L

Instrument ID: TOC Phoenix 8000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Organic Carbon	67	67.0	1	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Method Blank - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

Lab Sample ID: MB 660-76559/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	PQL
MBAS	0.050	U	0.050	0.10

Lab Control Spike - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

Lab Sample ID: LCS 660-76559/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
MBAS	0.500	0.454	91	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

MS Lab Sample ID: 660-28254-R-4 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 660-28254-R-4 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analysis Batch: 660-76559
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
MBAS	92	87	80 - 120	4	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28285-1
Sdg Number: 660-28285

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76559

Method: SM 5540C
Preparation: N/A

MS Lab Sample ID: 660-28254-R-4 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Units: mg/l LAS MW 340

MSD Lab Sample ID: 660-28254-R-4 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 0700
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
MBAS	0.075	I	0.500	0.500	0.535	0.512

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12209

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS PAGE#1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Tallevast - RAP Design	PROJECT NO.: B0038055.0020.0002	PROJECT LOCATION (STATE): FL
SAMPLER'S SIGNATURE	P.O. NUMBER:	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalmen	CLIENT PHONE: 813.903.3136	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalmen@arcadis-us.com	
CLIENT ADDRESS: 3350 Bushwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 12

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	8141A None	2540C/D None	5310C Sulf. Acid	SM4500-S2-F Zinc Acet. NaOH	350.1 Sulf. Acid	7470A Nitric Acid	8081A None	8082 None	8151A None	8270C None	REMARKS
3/19/09	1100	MW-36	G	X				2	2	1	1	1	1	2	2	2	2	
	1220	MW-127						2	2	1	1	1	1	2	2	2	2	
	1230	MW-77						2	2	1	1	1	1	2	2	2	2	
	1230	MW-110						2	2	1	1	1	1	2	2	2	2	
	1630	MW-37						2	2	1	1	1	1	2	2	2	2	
	1630	MW-40						2	2	1	1	1	1	2	2	2	2	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945		3/20/09	1100
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945	Amanda Lamm	3/20/09	1100

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-2009	1100			660-28235	2.2°C CW-07 2.1°C, 2.3°C, 2.5°C, 2.4°C, 2.7°C, 2.1°C 3.1°C, 3.5°C, 3.0°C, 2.9°C, 3.3°C	

TAL8240-660 (1207)

Page 171 of 178

R625-EDC-001214-0

Serial Number 12210

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS PAGE #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 12

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 7470A (Diss. Hg) NITR. ACID PRESERVATIVE	5540C NONE	5210B NONE	335.4 NaOH	1664A HCl	5242_Preserved HCl	200.7_CWA NONE	6020 - Metals NITR. ACID	6020 - Diss. Metals NITR. ACID	300.0_28D NONE	REMARKS
3/19/09	1100	MW-36	G	X				1	1	1	1	2	3	1	1	1	1	* Please grab the
	1220	MW-127						1	1	1	1	2	3	1	1	1	1	sample for dissolved
	1230	MW-77						*	1	1	1	2	3	1	2**	1*	1	Hg (7470A) analysis
	1230	MW-110						1	1	1	1	2	3	1	1	1	1	from the 6020 -
	1630	MW-37						1	1	1	1	2	3	1	1	1	1	Diss. Metals sample.
	1630	MW-40						1	1	1	1	2	3	1	1	1	1	** An extra unfiltered
↓	1650	MW-254	↓	↓				—	—	—	—	—	—	—	2+	2+	—	sample (6020-Metals)
																		has been provided
																		if the extra volume
																		is needed.

Remarks: + Samples for MW-254 should be analyzed for only total and dissolved Fe & Mn

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin Doyle	3/20/09	0945		3/20/09	1100
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09		Amanda Adams	3/20/09	1100

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-20-09	1100			660-28285	2.2°C Cu-0 °C	2.1°C 2.3°C 2.7°C 2.4°C 2.7°C 2.1°C 2.1°C 2.3°C 2.7°C 2.4°C 2.9°C 3.3°C 3.1°C 3.5°C 3.0°C 2.4°C

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12214

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS (24-hr hold samples)

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast-RAP Design	B0038055.0020.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.Thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 3500_CR_B/2320B 300.0_28D/353.2 SM4500_H/120.1	NUMBER OF CONTAINERS SUBMITTED: NONE	REMARKS
3/19/09	1100	MW-36	G	X					1	
	1220	MW-127							1	
	1230	MW-77							1	
	1230	MW-110							1	
	1630	MW-37							1	
	1630	MW-40							1	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Matthew D Sedon	3/19/09	1856			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3-19-09	1856			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-19-09	1856	YES ○ NO ○		160-28285	3.1°C	Cav-07

TAL8240-660 (1207)

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28285 Logged in TALS By: Amanda Hanson

Cooler Received on (date) 3/20/09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: see COC Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: 10

   All containers pH < 2 ? Yes If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: 10

   All containers pH < 2 ? Yes If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 24

   All containers pH < 2 ? Yes If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: 10

   All containers pH >12 ? Yes If not please comment below:

8. Number of Unpreserved containers: 95

   All containers pH between 6 and 8? Yes If not please comment below:

9. Was chlorine present in any of the unpreserved containers? NO

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28285-1
SDG Number: 660-28285

Login Number: 28285
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	see receipt info page
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	Hex Chrom/pH samples were received on 03/19/09 @ 1856
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28285-1
SDG Number: 660-28285

Login Number: 28285
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/21/09 10:30 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28285-1
SDG Number: 660-28285

Login Number: 28285
Creator: Conner, Keaton
List Number: 2

List Source: TestAmerica Savannah
List Creation: 03/31/09 09:40 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28285-1
SDG Number: 660-28285

Login Number: 28285
Creator: Suarez, Joe
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/21/09 01:36 PM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

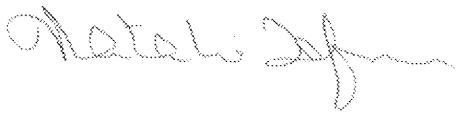
Job Number: 660-28303-1

SDG Number: 660-28303

Job Description: Tallevast-RAP Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/23/2009 2:19 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/23/2009
Revision: 1

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282
TestAmerica Savannah E87052
TestAmerica Tallahassee E81005

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

Job Narrative
660-J28303-1

Comments
No additional comments. See below for revised report narrative.

Receipt
All samples were received in good condition within temperature requirements.

8270C
The batch sample duplicate %RPD for batch 660-76626(job 660-28285) was outside of the control limits for bis(2-ethyl hexyl) phthalate. The data are flagged with J3 qualifiers. The batch sample duplicate %RPD for batch 660-76626 has a result of NC for most compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

The batch sample duplicate %RPD for batch 660-76618(job 660-28285) was outside of the control limits for fluoranthene. The data are flagged with J3 qualifiers. The batch sample duplicate %RPD for batch 660-76618 has a result of NC for most compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

8081A/8082
The batch sample duplicate %RPD for batch 660-76627(job 660-28285) has a result of NC for all compounds. The sample result and the sample duplicate result are both Non-detect for these compounds. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

The recovery for TCMX tetrachloro-m-xylene surrogate is outside of control limits for the MB and LCS for batch 660-76627. The recovery for DCB decachlorobiphenyl surrogate is within control limits. The data are flagged with J1 qualifiers.

The recovery for DCB decachlorobiphenyl surrogate is outside of control limits for sample 660-28303-1. The recovery for TCMX tetrachloro-m-xylene surrogate is within control limits. The data are flagged with J1 qualifiers.

SM 4500 H+B
The samples were received outside of holding time for pH. The data are flagged with Q qualifiers.

1664A
The batch matrix spike (MS) recovery for batch 660-76663(job 660-28188) was outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

The batch sample duplicate %RPD for batch 660-76612(job 660-28187) and batch 660-76746(job 660-28123) have a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

6020
The Method Blank for batch 680-133647 contained i values for Fe and SB. The data are flagged with V qualifiers.

The Method Blank for batch 680-133650 contained i values for Fe and SB. The data are flagged with V qualifiers.

The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 680-133650(job 680-45772) were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

8151A
The surrogate recoveries for the lcs/lcsd for batch 660-76935 failed high, due to the surrogate being spiked at 1/10 the normal concentration. The surrogate recoveries for the samples and the blank were within control limits. The added surrogate was .2ppm instead of 2ppm due to an error in making the surrogate. The final volume was brought down to 1 ml in order to attempt to correct for the surrogate on the analysis end.

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batch 660-76935.

300.0
The batch matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-77112(job 660-28307) were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

335.4
The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76954 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

SM 3500 CRB

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-76640 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

SM 5210B
The sample duplicate %RPD for batch 660-76669 has a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

2320B
The sample duplicate %RPD for batch 660-76653 has a result of NC. The sample result and the sample duplicate result are both Non-detect for this compound. The Laboratory LIMs system flags the %RPD in this scenario as NC, or "not calculated".

This report was revised on 4-23-09: Per client request, hardness, nickel and zinc were added to the report.

6020
The Method Blank for batch 680-133647 contains an i value for Ni. The data are flagged with V qualifiers.

The Method Blank for batch 680-133650 contains an i value for Ni. The data are flagged with V qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28303-1	**MW-35**				
Hardness as calcium carbonate	450		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	250		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	200		10	mg/L	SM 2340B
Specific Conductance	1200		5.0	umhos/cm	120.1
Chloride	110		5.0	mg/L	300.0
Fluoride	0.78		0.050	mg/L	300.0
Sulfate	380		10	mg/L	300.0
Cyanide	0.0062	I J3	0.020	mg/L	335.4
Ammonia (as N)	1.1		0.020	mg/L	350.1
Alkalinity	13		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	13		1.0	mg/L	SM 2320B
Total Dissolved Solids	800		10	mg/L	SM 2540C
Total Suspended Solids	3.4		1.0	mg/L	SM 2540D
pH	5.54	Q		SU	SM 4500 H+ B
Biochemical Oxygen Demand	2.4		2.0	mg/L	SM 5210B
Total Organic Carbon	8.7		4.0	mg/L	SM 5310C
MBAS	0.070	I	0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	6100		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved	660		50	ug/L	6020
Arsenic, Dissolved	0.90	I	2.5	ug/L	6020
Calcium, Dissolved	110000		250	ug/L	6020
Iron, Dissolved	29000	V	100	ug/L	6020
Potassium, Dissolved	9000		250	ug/L	6020
Magnesium, Dissolved	51000		250	ug/L	6020
Manganese, Dissolved	76		5.0	ug/L	6020
Sodium, Dissolved	64000		250	ug/L	6020
Antimony, Dissolved	0.41	I V	2.5	ug/L	6020
Nickel, Dissolved	0.77	I V	1.0	ug/L	6020
Total Recoverable					
Aluminum	640		50	ug/L	6020
Arsenic	0.85	I	2.5	ug/L	6020
Calcium	100000		250	ug/L	6020
Iron	27000	V	100	ug/L	6020
Potassium	8300		250	ug/L	6020
Magnesium	48000		250	ug/L	6020
Manganese	70		5.0	ug/L	6020
Sodium	60000		250	ug/L	6020
Antimony	0.46	I V	2.5	ug/L	6020
Nickel	0.45	I V	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Sample ID / Analyte	Client Sample ID / Result / Qualifier		Reporting Limit	Units	Method
660-28303-2	**MW-95**				
Hardness as calcium carbonate	190		16	mg/L	SM 2340B
Calcium hardness as calcium carbonate	110		6.0	mg/L	SM 2340B
Magnesium hardness as calcium carbonate	81		10	mg/L	SM 2340B
Specific Conductance	450		5.0	umhos/cm	120.1
Chloride	36		2.0	mg/L	300.0
Fluoride	0.29		0.050	mg/L	300.0
Sulfate	51		2.0	mg/L	300.0
Cyanide	0.0083	I J3	0.020	mg/L	335.4
Ammonia (as N)	0.36		0.020	mg/L	350.1
Alkalinity	100		1.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3	100		1.0	mg/L	SM 2320B
Total Dissolved Solids	260		5.0	mg/L	SM 2540C
Total Suspended Solids	4.8		2.0	mg/L	SM 2540D
pH	6.47	Q		SU	SM 4500 H+ B
Total Organic Carbon	12		4.0	mg/L	SM 5310C
MBAS	0.088	I	0.10	mg/l LAS	SM 5540C
Dissolved					
SiO2, Silica	14000		500	ug/L	200.7 Rev 4.4
Aluminum, Dissolved	17	I	50	ug/L	6020
Calcium, Dissolved	44000		250	ug/L	6020
Iron, Dissolved	1600	V	100	ug/L	6020
Potassium, Dissolved	1300		250	ug/L	6020
Magnesium, Dissolved	21000		250	ug/L	6020
Manganese, Dissolved	24		5.0	ug/L	6020
Sodium, Dissolved	19000		250	ug/L	6020
Nickel, Dissolved	0.47	I V	1.0	ug/L	6020
Total Recoverable					
Aluminum	25	I	50	ug/L	6020
Calcium	43000		250	ug/L	6020
Iron	2100	V	100	ug/L	6020
Potassium	1200		250	ug/L	6020
Magnesium	20000		250	ug/L	6020
Manganese	24		5.0	ug/L	6020
Sodium	20000		250	ug/L	6020
Nickel	0.48	I V	1.0	ug/L	6020

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	EPA-DW 524.2	
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL TAM	SW846 8270C	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C
Semivolatile Organic Compounds by GCMS - Low Levels	TAL TAM	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)	TAL TAM		SW846 3520C
Organochlorine Pesticides (GC)	TAL TAM	SW846 8081A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL TAM		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL TAM	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL TAM		SW846 3510C
Organophosphorous Pesticides (GC)	TAL TAL	SW846 8141A	
Liquid-Liquid Extraction (Continuous)	TAL TAL		SW846 3520C
Herbicides (GC)	TAL TAM	SW846 8151A	
Extraction (Herbicides)	TAL TAM		SW846 8151A
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Sample Filtration	TAL SAV		FILTRATION
Metals (ICP/MS)	TAL SAV	SW846 6020	
Sample Filtration, Field	TAL SAV		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL TAM	SW846 7470A	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Mercury	TAL TAM		SW846 7470A
Total Hardness (as CaCO3) by calculation	TAL SAV	SM SM 2340B	
Conductivity, Specific Conductance	TAL TAM	MCAWW 120.1	
HEM and SGT-HEM	TAL TAM	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL TAM		1664A 1664A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Cyanide, Total	TAL TAM	MCAWW 335.4	
Distillation, Cyanide	TAL TAM		Distill/CN
Nitrogen, Ammonia	TAL TAM	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL TAM	MCAWW 353.2	
Alkalinity	TAL TAM	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL TAL	SM SM 2540D	
Chromium, Hexavalent	TAL TAM	SM SM 3500 CR B	
pH	TAL TAM	SM SM 4500 H+ B	
Sulfide, Total	TAL TAM	SM SM 4500 S2 F	

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Description	Lab Location	Method	Preparation Method
Matrix: Water			
BOD, 5-Day	TAL TAM	SM SM 5210B	
TOC	TAL TAL	SM SM 5310C	
Methylene Blue Active Substances (MBAS)	TAL TAM	SM SM 5540C	

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method	Analyst	Analyst ID
EPA-DW 524.2	Jakubsen, Melanie	MLJ
SW846 8270C	Campbell, Ed	EC
SW846 8270C LL	Perrin, Todd	TP
SW846 8081A	Perrin, Todd	TP
SW846 8082	Ballard, James	JB
SW846 8141A	Thomas, Martin L	MLT
SW846 8151A	Myers, Randy	RM
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
SW846 6020	Boyuk, Brian	BB
SW846 7470A	Canales, Richard	RC
SM SM 2340B	Boyuk, Brian	BB
MCAWW 120.1	Steward, Tiffany	TS
1664A 1664A	Oonnoonny, Thomas	TO
MCAWW 300.0	Petterson, Alyssa	AP
MCAWW 335.4	Mostafavifar, Efe	EM
MCAWW 350.1	Griffith, Kelly L	KLG
MCAWW 353.2	Mostafavifar, Efe	EM
SM SM 2320B	Steward, Tiffany	TS
SM SM 2540C	Wilkerson, Shelette	SW
SM SM 2540D	Wilkerson, Shelette	SW
SM SM 3500 CR B	Mostafavifar, Efe	EM
SM SM 4500 H+ B	Mostafavifar, Efe	EM
SM SM 4500 S2 F	Martin, Randolph	RM
SM SM 5210B	Sengsouvanna, Dom	DS
SM SM 5310C	Frank, Michelle	MF
SM SM 5540C	Cantin, Stephen C	SCC

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28303-1	MW-35	Water	03/20/2009 1220	03/20/2009 1900
660-28303-2	MW-95	Water	03/20/2009 1645	03/20/2009 1900
660-28303-3	Trip Blank	Water	03/20/2009 0000	03/20/2009 1900

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1340
Date Prepared: N/A

Analysis Batch: 680-133566

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1142.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	90	70 - 130
4-Bromofluorobenzene	98	70 - 130

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1359
Date Prepared: N/A

Analysis Batch: 680-133566

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1143.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	90	70 - 130
4-Bromofluorobenzene	97	70 - 130

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28303-3
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/20/2009 1900

524.2 Volatile Organic Compounds (GC/MS)

Method: 524.2
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1320
Date Prepared: N/A

Analysis Batch: 680-133566

Instrument ID: GC/MS Volatiles - U
Lab File ID: u1141.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	%Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	86	70 - 130
4-Bromofluorobenzene	92	70 - 130

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1921
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24024.D
Initial Weight/Volume: 990 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.4	U	2.4	4.0
Dimethyl phthalate	2.5	U	2.5	10
Diethyl phthalate	2.5	U	2.5	10
Di-n-butyl phthalate	2.5	U	2.5	10
Butyl benzyl phthalate	1.2	U	1.2	10
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	6.1
Di-n-octyl phthalate	2.5	U	2.5	10
2-Chlorophenol	2.1	U	2.1	10
2-Nitrophenol	1.2	U	1.2	10
2,4-Dimethylphenol	1.8	U	1.8	10
2,4-Dichlorophenol	1.8	U	1.8	10
2,4,6-Trichlorophenol	1.9	U	1.9	10
4-Chloro-3-methylphenol	1.7	U	1.7	10
2,4-Dinitrophenol	6.3	U	6.3	51
4,6-Dinitro-2-methylphenol	1.5	U	1.5	51
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.3	U	6.3	51
2-Methylphenol	2.3	U	2.3	10
2,4,5-Trichlorophenol	2.1	U	2.1	10
3 & 4 Methylphenol	2.4	U	2.4	10

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	45	29 - 121
Nitrobenzene-d5	49	34 - 130
Phenol-d5	40	25 - 128
2-Fluorobiphenyl	46	36 - 124
Terphenyl-d14	53	14 - 148
2,4,6-Tribromophenol	69	29 - 143

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/24/2009 1942
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626

Instrument ID: BSMC5973
Lab File ID: 1CC24025.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Phenol	2.3	U	2.3	3.8
Dimethyl phthalate	2.4	U	2.4	9.5
Diethyl phthalate	2.4	U	2.4	9.5
Di-n-butyl phthalate	2.4	U	2.4	9.5
Butyl benzyl phthalate	1.1	U	1.1	9.5
Bis(2-ethylhexyl) phthalate	1.2	U	1.2	5.7
Di-n-octyl phthalate	2.4	U	2.4	9.5
2-Chlorophenol	2.0	U	2.0	9.5
2-Nitrophenol	1.1	U	1.1	9.5
2,4-Dimethylphenol	1.7	U	1.7	9.5
2,4-Dichlorophenol	1.7	U	1.7	9.5
2,4,6-Trichlorophenol	1.8	U	1.8	9.5
4-Chloro-3-methylphenol	1.6	U	1.6	9.5
2,4-Dinitrophenol	5.9	U	5.9	48
4,6-Dinitro-2-methylphenol	1.4	U	1.4	48
Pentachlorophenol	1.4	U	1.4	14
4-Nitrophenol	5.9	U	5.9	48
2-Methylphenol	2.2	U	2.2	9.5
2,4,5-Trichlorophenol	2.0	U	2.0	9.5
3 & 4 Methylphenol	2.3	U	2.3	9.5

Surrogate	%Rec	Acceptance Limits
2-Fluorophenol	48	29 - 121
Nitrobenzene-d5	50	34 - 130
Phenol-d5	45	25 - 128
2-Fluorobiphenyl	47	36 - 124
Terphenyl-d14	36	14 - 148
2,4,6-Tribromophenol	65	29 - 143

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1420
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25017.D
Initial Weight/Volume: 910 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.27	U	0.27	2.2
2-Methylnaphthalene	0.55	U	0.55	2.2
1-Methylnaphthalene	0.55	U	0.55	2.2
Acenaphthylene	0.27	U	0.27	1.1
Acenaphthene	0.55	U	0.55	2.2
Fluorene	0.55	U	0.55	2.2
Phenanthrene	0.22	U	0.22	0.55
Anthracene	0.084	U	0.084	0.22
Fluoranthene	0.059	U	0.059	0.55
Pyrene	0.098	U	0.098	0.55
Benzo[a]anthracene	0.055	U	0.055	0.22
Chrysene	0.076	U	0.076	0.22
Benzo[b]fluoranthene	0.055	U	0.055	0.22
Benzo[k]fluoranthene	0.063	U	0.063	0.22
Benzo[a]pyrene	0.063	U	0.063	0.22
Indeno[1,2,3-cd]pyrene	0.055	U	0.055	0.22
Dibenz(a,h)anthracene	0.055	U	0.055	0.22
Benzo[g,h,i]perylene	0.11	U	0.11	0.55

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	94	30 - 130

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Method: 8270C LL
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/25/2009 1436
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618

Instrument ID: HP6890/5973
Lab File ID: 1AC25018.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Naphthalene	0.24	U	0.24	1.9
2-Methylnaphthalene	0.48	U	0.48	1.9
1-Methylnaphthalene	0.48	U	0.48	1.9
Acenaphthylene	0.24	U	0.24	0.96
Acenaphthene	0.48	U	0.48	1.9
Fluorene	0.48	U	0.48	1.9
Phenanthrene	0.19	U	0.19	0.48
Anthracene	0.073	U	0.073	0.19
Fluoranthene	0.052	U	0.052	0.48
Pyrene	0.086	U	0.086	0.48
Benzo[a]anthracene	0.048	U	0.048	0.19
Chrysene	0.066	U	0.066	0.19
Benzo[b]fluoranthene	0.048	U	0.048	0.19
Benzo[k]fluoranthene	0.055	U	0.055	0.19
Benzo[a]pyrene	0.055	U	0.055	0.19
Indeno[1,2,3-cd]pyrene	0.048	U	0.048	0.19
Dibenz(a,h)anthracene	0.048	U	0.048	0.19
Benzo[g,h,i]perylene	0.096	U	0.096	0.48

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	76	30 - 130

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1641
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J036.D
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Endrin aldehyde	0.0034	U	0.0034	0.011

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1510
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C25J000016.D
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0043	U	0.0043	0.011
4,4'-DDE	0.0058	U	0.0058	0.011
4,4'-DDT	0.0033	U	0.0033	0.011
Aldrin	0.0019	U	0.0019	0.011
alpha-BHC	0.0029	U	0.0029	0.011
beta-BHC	0.0028	U	0.0028	0.011
Chlordane (technical)	0.060	U	0.060	0.53
delta-BHC	0.0029	U	0.0029	0.011
Dieldrin	0.0015	U	0.0015	0.011
Endosulfan I	0.0036	U	0.0036	0.011
Endosulfan II	0.0035	U	0.0035	0.011
Endosulfan sulfate	0.0031	U	0.0031	0.011
Endrin	0.0033	U	0.0033	0.011
Endrin ketone	0.0057	U	0.0057	0.11
gamma-BHC (Lindane)	0.0027	U	0.0027	0.011
Heptachlor	0.0032	U	0.0032	0.011
Heptachlor epoxide	0.0033	U	0.0033	0.011
Methoxychlor	0.0053	U	0.0053	0.011
Toxaphene	0.76	U	0.76	3.2

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	53	30 - 150
Tetrachloro-m-xylene	56	30 - 150

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

8081A Organochlorine Pesticides (GC)

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1654
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J037.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Endrin aldehyde	0.0031	U	0.0031	0.0096

Method: 8081A
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/25/2009 1524
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C25J000017.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
4,4'-DDD	0.0039	U	0.0039	0.0096
4,4'-DDE	0.0053	U	0.0053	0.0096
4,4'-DDT	0.0030	U	0.0030	0.0096
Aldrin	0.0018	U	0.0018	0.0096
alpha-BHC	0.0027	U	0.0027	0.0096
beta-BHC	0.0026	U	0.0026	0.0096
Chlordane (technical)	0.055	U	0.055	0.48
delta-BHC	0.0027	U	0.0027	0.0096
Dieldrin	0.0013	U	0.0013	0.0096
Endosulfan I	0.0033	U	0.0033	0.0096
Endosulfan II	0.0032	U	0.0032	0.0096
Endosulfan sulfate	0.0028	U	0.0028	0.0096
Endrin	0.0030	U	0.0030	0.0096
Endrin ketone	0.0052	U	0.0052	0.096
gamma-BHC (Lindane)	0.0025	U	0.0025	0.0096
Heptachlor	0.0030	U	0.0030	0.0096
Heptachlor epoxide	0.0030	U	0.0030	0.0096
Methoxychlor	0.0049	U	0.0049	0.0096
Toxaphene	0.69	U	0.69	2.9

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	55	30 - 150
Tetrachloro-m-xylene	60	30 - 150

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1611
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K029.D
Initial Weight/Volume: 950 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.27	U	0.27	0.53
PCB-1221	0.16	U	0.16	0.53
PCB-1232	0.40	U	0.40	0.53
PCB-1242	0.081	U	0.081	0.53
PCB-1248	0.074	U	0.074	0.53
PCB-1254	0.13	U	0.13	0.53
PCB-1260	0.11	U	0.11	0.53

Surrogate	%Rec		Acceptance Limits
DCB Decachlorobiphenyl	24	J1	30 - 150
Tetrachloro-m-xylene	53		30 - 150

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 03/24/2009 1432
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K027.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
PCB-1016	0.25	U	0.25	0.48
PCB-1221	0.14	U	0.14	0.48
PCB-1232	0.37	U	0.37	0.48
PCB-1242	0.074	U	0.074	0.48
PCB-1248	0.067	U	0.067	0.48
PCB-1254	0.12	U	0.12	0.48
PCB-1260	0.096	U	0.096	0.48

Surrogate	%Rec	Acceptance Limits
DCB Decachlorobiphenyl	50	30 - 150
Tetrachloro-m-xylene	67	30 - 150

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/27/2009 1703
Date Prepared: 03/25/2009 1350

Analysis Batch: 640-55158
Prep Batch: 640-55037

Instrument ID: SGF Varian 3400
Lab File ID: 2C27F34.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.96
Bolstar	0.091	U	0.091	0.96
Chlorpyrifos	0.11	U	0.11	0.96
Coumaphos	0.078	U	0.078	0.96
Demeton-O	0.11	U	0.11	2.4
Diazinon	0.11	U	0.11	0.96
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.31	U	0.31	1.9
Disulfoton	0.12	U	0.12	1.9
EPN	0.068	U	0.068	0.96
Ethion	0.11	U	0.11	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.077	U	0.077	0.96
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.96
Merphos	0.12	U	0.12	0.96
Methyl parathion	0.12	U	0.12	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.6
Naled	0.35	U	0.35	4.8
Phorate	0.15	U	0.15	0.96
Ronnel	0.12	U	0.12	0.96
Stirophos	0.081	U	0.081	0.96
Sulfotepp	0.053	U	0.053	0.48
Tokuthion	0.084	U	0.084	0.96
Trichloronate	0.11	U	0.11	0.96

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	103	37 - 139

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

8141A Organophosphorous Pesticides (GC)

Method: 8141A
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 03/27/2009 1717
Date Prepared: 03/25/2009 1350

Analysis Batch: 640-55158
Prep Batch: 640-55037

Instrument ID: SGF Varian 3400
Lab File ID: 2C27F35.d
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Guthion	0.32	U	0.32	0.96
Bolstar	0.091	U	0.091	0.96
Chlorpyrifos	0.11	U	0.11	0.96
Coumaphos	0.078	U	0.078	0.96
Demeton-O	0.11	U	0.11	2.4
Diazinon	0.11	U	0.11	0.96
Dichlorvos	0.25	U	0.25	1.9
Dimethoate	0.31	U	0.31	1.9
Disulfoton	0.12	U	0.12	1.9
EPN	0.068	U	0.068	0.96
Ethion	0.11	U	0.11	0.48
Ethoprop	0.39	U	0.39	0.48
Ethyl Parathion	0.077	U	0.077	0.96
Fensulfothion	0.16	U	0.16	4.8
Malathion	0.088	U	0.088	0.96
Merphos	0.12	U	0.12	0.96
Methyl parathion	0.12	U	0.12	0.48
Mevinphos	0.14	U	0.14	1.9
Monochrotophos	2.5	U	2.5	9.6
Naled	0.35	U	0.35	4.8
Phorate	0.15	U	0.15	0.96
Ronnel	0.12	U	0.12	0.96
Stirophos	0.081	U	0.081	0.96
Sulfotepp	0.053	U	0.053	0.48
Tokuthion	0.084	U	0.084	0.96
Trichloronate	0.11	U	0.11	0.96

Surrogate	%Rec	Acceptance Limits
Triphenylphosphate (TPP)	95	37 - 139

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 2.0
Date Analyzed: 04/02/2009 2137
Date Prepared: 03/27/2009 1535

Analysis Batch: 660-77248
Prep Batch: 660-76935

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1D02J041.D
Initial Weight/Volume: 920 mL
Final Weight/Volume: 1 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.22	U	0.22	1.1
2,4-D	0.22	U	0.22	1.1
2,4-DB	0.22	U	0.22	1.1
Dalapon	5.4	U	5.4	26
Dicamba	0.054	U	0.054	0.26
Dichlorprop	0.22	U	0.22	1.3
Dinoseb	0.22	U	0.22	1.3
MCPA	7.4	U	7.4	26
MCPP	7.6	U	7.6	26
Pentachlorophenol	0.018	U	0.018	0.22
Picloram	0.22	U	0.22	1.1
Silvex (2,4,5-TP)	0.22	U	0.22	1.1

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	102	33 - 120

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

8151A Herbicides (GC)

Method: 8151A
Preparation: 8151A
Dilution: 2.0
Date Analyzed: 04/02/2009 2153
Date Prepared: 03/27/2009 1535

Analysis Batch: 660-77248
Prep Batch: 660-76935

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1D02J042.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2,4,5-T	0.19	U	0.19	0.96
2,4-D	0.19	U	0.19	0.96
2,4-DB	0.19	U	0.19	0.96
Dalapon	4.8	U	4.8	23
Dicamba	0.048	U	0.048	0.23
Dichlorprop	0.19	U	0.19	1.2
Dinoseb	0.19	U	0.19	1.2
MCPA	6.5	U	6.5	23
MCPP	6.7	U	6.7	23
Pentachlorophenol	0.016	U	0.016	0.19
Picloram	0.19	U	0.19	0.96
Silvex (2,4,5-TP)	0.19	U	0.19	0.96

Surrogate	%Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	81	33 - 120

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1130
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	6100		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 2026
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-135827
Prep Batch: 680-133647

Instrument ID: ICP MS - B
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Nickel	0.45	I V	0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 2147
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-133984
Prep Batch: 680-133647

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	640		15	50
Arsenic	0.85	I	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	100000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.60	U	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	27000	V	12	100
Potassium	8300		40	250
Magnesium	48000		14	250
Manganese	70		0.95	5.0
Sodium	60000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.46	I V	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 2013
Date Prepared: 03/26/2009 1229

Analysis Batch: 680-133984
Prep Batch: 680-133650

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	660		15	50
Arsenic, Dissolved	0.90	I	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	110000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.60	U	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	29000	V	12	100
Potassium, Dissolved	9000		40	250
Magnesium, Dissolved	51000		14	250
Manganese, Dissolved	76		0.95	5.0
Sodium, Dissolved	64000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.41	I V	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.77	I V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1603
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1605
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/30/2009 2147
Date Prepared: N/A

Analysis Batch: 680-135366

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	450		16	16
Calcium hardness as calcium carbonate	250		6.0	6.0
Magnesium hardness as calcium carbonate	200		10	10

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

200.7 Rev 4.4 Metals (ICP)-Dissolved

Method: 200.7 Rev 4.4
Preparation: N/A
Dilution: 1.0
Date Analyzed: 03/25/2009 1133
Date Prepared: N/A

Analysis Batch: 680-133567

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
SiO2, Silica	14000		100	500

6020 Metals (ICP/MS)-Total Recoverable

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 2034
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-135827
Prep Batch: 680-133647

Instrument ID: ICP MS - B
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Nickel	0.48	I V	0.32	1.0
Zinc	6.5	U	6.5	20

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 2154
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-133984
Prep Batch: 680-133647

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	25	I	15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	43000		50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.60	U	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	2100	V	12	100
Potassium	1200		40	250
Magnesium	20000		14	250
Manganese	24		0.95	5.0
Sodium	20000		90	250
Lead	0.15	U	0.15	1.5
Antimony	0.36	U	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

6020 Metals (ICP/MS)-Dissolved

Method: 6020
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 2020
Date Prepared: 03/26/2009 1229

Analysis Batch: 680-133984
Prep Batch: 680-133650

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	17	I	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	44000		50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.60	U	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	1600	V	12	100
Potassium, Dissolved	1300		40	250
Magnesium, Dissolved	21000		14	250
Manganese, Dissolved	24		0.95	5.0
Sodium, Dissolved	19000		90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.36	U	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.47	I V	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

7470A Mercury (CVAA)

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1607
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

7470A Mercury (CVAA)-Dissolved

Method: 7470A
Preparation: 7470A
Dilution: 1.0
Date Analyzed: 03/23/2009 1609
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury, Dissolved	0.000072	U	0.000072	0.00020

SM 2340B Total Hardness (as CaCO3) by calculation

Method: SM 2340B
Preparation: N/A
Dilution: 5.0
Date Analyzed: 03/30/2009 2154
Date Prepared: N/A

Analysis Batch: 680-135366

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result (mg/L)	Qualifier	PQL	PQL
Hardness as calcium carbonate	190		16	16
Calcium hardness as calcium carbonate	110		6.0	6.0
Magnesium hardness as calcium carbonate	81		10	10

General Chemistry

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	1.0	U	mg/L	1.0	5.1	1.0	1664A
Anly Batch: 660-76663	Date Analyzed		03/23/2009 1720				
Prep Batch: 660-76612	Date Prepared:		03/23/2009 1011				
Total Dissolved Solids	800		mg/L	10	10	1.0	SM 2540C
Anly Batch: 640-55127	Date Analyzed		03/27/2009 0743				
Total Suspended Solids	3.4		mg/L	0.48	1.0	1.0	SM 2540D
Anly Batch: 640-55125	Date Analyzed		03/27/2009 0735				
Fluoride	0.78		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 0531				
Chloride	110		mg/L	2.0	5.0	10	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 1801				
Sulfate	380		mg/L	4.0	10	20	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 1826				
Cyanide	0.0062	I J3	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76957	Date Analyzed		03/28/2009 1200				
Prep Batch: 660-76954	Date Prepared:		03/28/2009 0900				
Ammonia (as N)	1.1		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76902	Date Analyzed		03/27/2009 1232				
Chromium (hexavalent)	0.0014	U	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76640	Date Analyzed		03/21/2009 0900				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-77055	Date Analyzed		03/21/2009 1101				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-77055	Date Analyzed		03/21/2009 1101				
Total Organic Carbon	8.7		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-55094	Date Analyzed		03/25/2009 2340				
MBAS	0.070	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76595	Date Analyzed		03/21/2009 1454				

Analyte	Result	Qual	Units	Dil	Method
pH	5.54	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76615	Date Analyzed		03/20/2009 1930		

General Chemistry

Client Sample ID: MW-35

Lab Sample ID: 660-28303-1
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	1200		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0948				
Alkalinity	13		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1507				
Bicarbonate Alkalinity as CaCO3	13		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1507				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1507				
Biochemical Oxygen Demand	2.4		mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76669	Date Analyzed		03/21/2009 1956				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76811	Date Analyzed		03/25/2009 1000				

General Chemistry

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
HEM (Oil and Grease)	1.0	U	mg/L	1.0	5.0	1.0	1664A
Anly Batch: 660-76663	Date Analyzed		03/23/2009 1720				
Prep Batch: 660-76612	Date Prepared:		03/23/2009 1011				
Total Dissolved Solids	260		mg/L	5.0	5.0	1.0	SM 2540C
Anly Batch: 640-55127	Date Analyzed		03/27/2009 0743				
Total Suspended Solids	4.8		mg/L	0.96	2.0	1.0	SM 2540D
Anly Batch: 640-55125	Date Analyzed		03/27/2009 0735				
Fluoride	0.29		mg/L	0.020	0.050	1.0	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 0557				
Chloride	36		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 1852				
Sulfate	51		mg/L	0.80	2.0	4.0	300.0
Anly Batch: 660-77112	Date Analyzed		03/31/2009 1852				
Cyanide	0.0083	I J3	mg/L	0.0062	0.020	1.0	335.4
Anly Batch: 660-76957	Date Analyzed		03/28/2009 1200				
Prep Batch: 660-76954	Date Prepared:		03/28/2009 0900				
Ammonia (as N)	0.36		mg/L	0.010	0.020	1.0	350.1
Anly Batch: 660-76902	Date Analyzed		03/27/2009 1200				
Chromium (hexavalent)	0.0014	U J3	mg/L	0.0014	0.010	1.0	SM 3500 CR B
Anly Batch: 660-76640	Date Analyzed		03/21/2009 0900				
Nitrate Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-77055	Date Analyzed		03/21/2009 1101				
Nitrite as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Anly Batch: 660-77055	Date Analyzed		03/21/2009 1101				
Total Organic Carbon	12		mg/L	0.40	4.0	4.0	SM 5310C
Anly Batch: 640-55094	Date Analyzed		03/25/2009 2356				
MBAS	0.088	I	mg/l LAS	0.050	0.10	1.0	SM 5540C
Anly Batch: 660-76595	Date Analyzed		03/21/2009 1454				

Analyte	Result	Qual	Units	Dil	Method
pH	6.47	Q	SU	1.0	SM 4500 H+ B
Anly Batch: 660-76615	Date Analyzed		03/20/2009 1930		

General Chemistry

Client Sample ID: MW-95

Lab Sample ID: 660-28303-2
Client Matrix: Water

Date Sampled: 03/20/2009 1645
Date Received: 03/20/2009 1900

Analyte	Result	Qual	Units	PQL	PQL	Dil	Method
Specific Conductance	450		umhos/cm	5.0	5.0	1.0	120.1
Anly Batch: 660-76613	Date Analyzed		03/23/2009 0950				
Alkalinity	100		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1512				
Bicarbonate Alkalinity as CaCO3	100		mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1512				
Carbonate Alkalinity as CaCO3	1.0	U	mg/L	1.0	1.0	1.0	SM 2320B
Anly Batch: 660-76653	Date Analyzed		03/23/2009 1512				
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	SM 5210B
Anly Batch: 660-76669	Date Analyzed		03/21/2009 2005				
Sulfide	1.0	U	mg/L	1.0	1.0	1.0	SM 4500 S2 F
Anly Batch: 660-76811	Date Analyzed		03/25/2009 1000				

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.
GC/MS Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	V	Indicates the analyte was detected in both the sample and the associated method blank.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Section	Qualifier	Description
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	Q	Sample held beyond the accepted holding time.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	NBZ %Rec	PHL %Rec	FBP %Rec	TPH %Rec	TBP %Rec
660-28303-1	MW-35	45	49	40	46	53	69
660-28303-2	MW-95	48	50	45	47	36	65
MB 660-76626/1-A		72	73	65	64	98	88
LCS 660-76626/2-A		64	73	52	64	75	87
660-28285-P-6-A MS		41	48	37	46	44	67
660-28285-P-5-A DU		46	47	44	43	30	64

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	29-121
NBZ = Nitrobenzene-d5	34-130
PHL = Phenol-d5	25-128
FBP = 2-Fluorobiphenyl	36-124
TPH = Terphenyl-d14	14-148
TBP = 2,4,6-Tribromophenol	29-143

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Surrogate Recovery Report

8270C LL Semivolatile Organic Compounds by GCMS - Low Levels

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH %Rec
660-28303-1	MW-35	94
660-28303-2	MW-95	76
MB 660-76618/1-A		121
LCS 660-76618/2-A		110
660-28285-AF-6-A MS		80
660-28285-AF-5-A DU		79

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	30-130

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Surrogate Recovery Report

8081A Organochlorine Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	DCB2 %Rec	TCX1 %Rec	TCX2 %Rec
660-28303-1	MW-35		53	56	
660-28303-2	MW-95		55	60	
MB 660-76627/1-A		79		25J1	
LCS 660-76627/2-A		79		29J1	
660-28285-L-3-A MS		50			61
660-28285-L-4-A DU		46			64

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	30-150
TCX = Tetrachloro-m-xylene	30-150

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
660-28303-1	MW-35	24J1	53
660-28303-2	MW-95	50	67
MB 660-76627/1-A		74	26J1
LCS 660-76627/19-A		90	89
660-28303-2 MS	MW-95 MS	62	75
660-28285-L-4-A DU		49	77

Surrogate	Acceptance Limits
DCB = DCB Decachlorobiphenyl	30-150
TCX = Tetrachloro-m-xylene	30-150

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Surrogate Recovery Report

8151A Herbicides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA1 %Rec
660-28303-1	MW-35	102
660-28303-2	MW-95	81
MB 660-76935/1-A		54
LCS 660-76935/2-A		176J1
LCSD 660-76935/3-A		163J1

Surrogate	Acceptance Limits
DCPA = 2,4-Dichlorophenylacetic acid	33-120

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Surrogate Recovery Report

524.2 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DCB %Rec	BFB %Rec
660-28303-1	MW-35	90	98
660-28303-2	MW-95	90	97
660-28303-3	Trip Blank	86	92
MB 680-133566/12		89	97
LCS 680-133566/10		104	103
LCSD 680-133566/11		100	100

Surrogate	Acceptance Limits
12DCB = 1,2-Dichlorobenzene-d4	70-130
BFB = 4-Bromofluorobenzene	70-130

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Surrogate Recovery Report

8141A Organophosphorous Pesticides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TPP2 %Rec
660-28303-1	MW-35	103
660-28303-2	MW-95	95
MB 640-55037/1-A		96
LCS 640-55037/2-A		94
LCSD 640-55037/3-A		95
640-21257-D-1-A MS		83
640-21257-A-1-A MSD		88

Surrogate	Acceptance Limits
TPP = Triphenylphosphate (TPP)	37-139

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 680-133566

Method: 524.2
Preparation: N/A

Lab Sample ID: MB 680-133566/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1153
Date Prepared: N/A

Analysis Batch: 680-133566
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq144.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzene	0.19	U	0.19	0.50
Bromoform	0.17	U	0.17	0.50
Chloroform	0.20	U	0.20	0.50
Dichlorobromomethane	0.19	U	0.19	0.50
Chlorodibromomethane	0.16	U	0.16	0.50
Trihalomethanes, Total	0.16	U	0.16	0.50

Surrogate	% Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	89	70 - 130
4-Bromofluorobenzene	97	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-133566

Method: 524.2
Preparation: N/A

LCS Lab Sample ID: LCS 680-133566/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1034
Date Prepared: N/A

Analysis Batch: 680-133566
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq142.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-133566/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1054
Date Prepared: N/A

Analysis Batch: 680-133566
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - U
Lab File ID: uq143.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzene	96	90	70 - 130	7	30		
Bromoform	99	94	70 - 130	4	30		
Chloroform	101	95	70 - 130	6	30		
Dichlorobromomethane	112	105	70 - 130	6	30		
Chlorodibromomethane	127	119	70 - 130	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichlorobenzene-d4	104	100	70 - 130
4-Bromofluorobenzene	103	100	70 - 130

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-133566

Method: 524.2
Preparation: N/A

LCS Lab Sample ID: LCS 680-133566/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1034
Date Prepared: N/A

Units: ug/L

LCSD Lab Sample ID: LCSD 680-133566/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1054
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	20.0	20.0	19.3	18.0
Bromoform	20.0	20.0	19.7	18.8
Chloroform	20.0	20.0	20.2	19.0
Dichlorobromomethane	20.0	20.0	22.4	21.1
Chlorodibromomethane	20.0	20.0	25.3	23.9

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: MB 660-76626/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1636
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24016.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	PQL
Phenol	2.4	U	2.4	4.0
Dimethyl phthalate	2.5	U	2.5	10
Diethyl phthalate	2.5	U	2.5	10
Di-n-butyl phthalate	2.5	U	2.5	10
Butyl benzyl phthalate	1.2	U	1.2	10
Bis(2-ethylhexyl) phthalate	1.3	U	1.3	6.0
Di-n-octyl phthalate	2.5	U	2.5	10
2-Chlorophenol	2.1	U	2.1	10
2-Nitrophenol	1.2	U	1.2	10
2,4-Dimethylphenol	1.8	U	1.8	10
2,4-Dichlorophenol	1.8	U	1.8	10
2,4,6-Trichlorophenol	1.9	U	1.9	10
4-Chloro-3-methylphenol	1.7	U	1.7	10
2,4-Dinitrophenol	6.2	U	6.2	50
4,6-Dinitro-2-methylphenol	1.5	U	1.5	50
Pentachlorophenol	1.5	U	1.5	15
4-Nitrophenol	6.2	U	6.2	50
2-Methylphenol	2.3	U	2.3	10
2,4,5-Trichlorophenol	2.1	U	2.1	10
3 & 4 Methylphenol	2.4	U	2.4	10

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	72	29 - 121
Nitrobenzene-d5	73	34 - 130
Phenol-d5	65	25 - 128
2-Fluorobiphenyl	64	36 - 124
Terphenyl-d14	98	14 - 148
2,4,6-Tribromophenol	88	29 - 143

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: LCS 660-76626/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1657
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24017.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenol	100	52.8	53	33 - 122	
2-Chlorophenol	100	73.0	73	38 - 115	
4-Chloro-3-methylphenol	100	62.1	62	34 - 126	
Pentachlorophenol	100	77.9	78	19 - 148	
4-Nitrophenol	100	41.1	41	12 - 143	

Matrix Spike - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: 660-28285-P-6-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2024
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24027.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Phenol	2.3	U	96.2	32.4	34	33 - 122	
2-Chlorophenol	2.0	U	96.2	44.0	46	38 - 115	
4-Chloro-3-methylphenol	1.6	U	96.2	40.2	42	34 - 126	
Pentachlorophenol	1.4	U	96.2	58.1	60	19 - 148	
4-Nitrophenol	5.9	U	96.2	35.8	37	12 - 143	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Duplicate - Batch: 660-76626

Method: 8270C
Preparation: 3520C

Lab Sample ID: 660-28285-P-5-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 2003
Date Prepared: 03/23/2009 1101

Analysis Batch: 660-76748
Prep Batch: 660-76626
Units: ug/L

Instrument ID: BSMC5973
Lab File ID: 1CC24026.D
Initial Weight/Volume: 1055 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Phenol	2.3	U	2.3	NC	36	U
Dimethyl phthalate	2.4	U	2.4	NC	31	U
Diethyl phthalate	2.4	U	2.4	NC	49	U
Di-n-butyl phthalate	2.4	U	2.4	NC	29	U
Butyl benzyl phthalate	1.1	U	1.1	NC	41	U
Bis(2-ethylhexyl) phthalate	2.0	I	4.10	69	26	I J3
Di-n-octyl phthalate	2.4	U	2.4	NC	33	U
2-Chlorophenol	2.0	U	2.0	NC	34	U
2-Nitrophenol	1.1	U	1.1	NC	24	U
2,4-Dimethylphenol	1.7	U	1.7	NC	43	U
2,4-Dichlorophenol	1.7	U	1.7	NC	30	U
2,4,6-Trichlorophenol	1.8	U	1.8	NC	22	U
4-Chloro-3-methylphenol	1.6	U	1.6	NC	31	U
2,4-Dinitrophenol	5.9	U	5.9	NC	63	U
4,6-Dinitro-2-methylphenol	1.4	U	1.4	NC	33	U
Pentachlorophenol	1.4	U	1.4	NC	33	U
4-Nitrophenol	5.9	U	5.9	NC	44	U
2-Methylphenol	2.2	U	2.2	NC	33	U
2,4,5-Trichlorophenol	2.0	U	2.0	NC	28	U
3 & 4 Methylphenol	2.3	U	2.3	NC	27	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: MB 660-76618/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1116
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25005.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Result	Qual	MDL	PQL
Naphthalene	0.25	U	0.25	2.0
2-Methylnaphthalene	0.50	U	0.50	2.0
1-Methylnaphthalene	0.50	U	0.50	2.0
Acenaphthylene	0.25	U	0.25	1.0
Acenaphthene	0.50	U	0.50	2.0
Fluorene	0.50	U	0.50	2.0
Phenanthrene	0.20	U	0.20	0.50
Anthracene	0.076	U	0.076	0.20
Fluoranthene	0.054	U	0.054	0.50
Pyrene	0.089	U	0.089	0.50
Benzo[a]anthracene	0.050	U	0.050	0.20
Chrysene	0.069	U	0.069	0.20
Benzo[b]fluoranthene	0.050	U	0.050	0.20
Benzo[k]fluoranthene	0.057	U	0.057	0.20
Benzo[a]pyrene	0.057	U	0.057	0.20
Indeno[1,2,3-cd]pyrene	0.050	U	0.050	0.20
Dibenz(a,h)anthracene	0.050	U	0.050	0.20
Benzo[g,h,i]perylene	0.10	U	0.10	0.50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	121	30 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: LCS 660-76618/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1132
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25006.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Naphthalene	2.00	1.94	97	41 - 130	
Acenaphthene	2.00	2.09	104	36 - 121	
Fluorene	2.00	2.20	110	50 - 124	
Pyrene	2.00	2.24	112	31 - 139	
Chrysene	2.00	2.24	112	44 - 128	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	110	30 - 130

Matrix Spike - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: 660-28285-AF-6-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1334
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25014.D
Initial Weight/Volume: 1050 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Naphthalene	0.24	U	1.90	1.16	61	41 - 130	
Acenaphthene	0.48	U	1.90	1.24	65	36 - 121	
Fluorene	0.48	U	1.90	1.37	72	50 - 124	
Pyrene	0.086	U	1.90	1.48	78	31 - 139	
Chrysene	0.066	U	1.90	1.47	77	44 - 128	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Duplicate - Batch: 660-76618

Method: 8270C LL
Preparation: 3520C

Lab Sample ID: 660-28285-AF-5-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1303
Date Prepared: 03/23/2009 1036

Analysis Batch: 660-76782
Prep Batch: 660-76618
Units: ug/L

Instrument ID: HP6890/5973
Lab File ID: 1AC25012.D
Initial Weight/Volume: 1065 mL
Final Weight/Volume: 1 mL
Injection Volume: 1.0 uL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Naphthalene	0.24	U	0.23	NC	33	U
2-Methylnaphthalene	0.47	U	0.47	NC	30	U
1-Methylnaphthalene	0.47	U	0.47	NC	30	U
Acenaphthylene	0.24	U	0.23	NC	28	U
Acenaphthene	0.47	U	0.47	NC	35	U
Fluorene	0.47	U	0.47	NC	23	U
Phenanthrene	0.19	U	0.19	NC	20	U
Anthracene	0.072	U	0.071	NC	21	U
Fluoranthene	0.16	I	0.0697	80	24	I J3
Pyrene	0.13	I	0.084	NC	42	U
Benzo[a]anthracene	0.056	I	0.047	NC	34	U
Chrysene	0.11	I	0.065	NC	31	U
Benzo[b]fluoranthene	0.088	I	0.047	NC	32	U
Benzo[k]fluoranthene	0.054	U	0.054	NC	34	U
Benzo[a]pyrene	0.057	I	0.054	NC	24	U
Indeno[1,2,3-cd]pyrene	0.047	U	0.047	NC	38	U
Dibenz(a,h)anthracene	0.047	U	0.047	NC	35	U
Benzo[g,h,i]perylene	0.095	U	0.094	NC	39	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: MB 660-76627/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1320
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J021.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
4,4'-DDD	0.0041	U	0.0041	0.010
4,4'-DDE	0.0055	U	0.0055	0.010
4,4'-DDT	0.0032	U	0.0032	0.010
Aldrin	0.0018	U	0.0018	0.010
alpha-BHC	0.0028	U	0.0028	0.010
beta-BHC	0.0027	U	0.0027	0.010
Chlordane (technical)	0.057	U	0.057	0.50
delta-BHC	0.0028	U	0.0028	0.010
Dieldrin	0.0014	U	0.0014	0.010
Endosulfan I	0.0034	U	0.0034	0.010
Endosulfan II	0.0033	U	0.0033	0.010
Endosulfan sulfate	0.0030	U	0.0030	0.010
Endrin	0.0031	U	0.0031	0.010
Endrin aldehyde	0.0032	U	0.0032	0.010
Endrin ketone	0.0054	U	0.0054	0.10
gamma-BHC (Lindane)	0.0026	U	0.0026	0.010
Heptachlor	0.0031	U	0.0031	0.010
Heptachlor epoxide	0.0031	U	0.0031	0.010
Methoxychlor	0.0051	U	0.0051	0.010
Toxaphene	0.72	U	0.72	3.0

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	79		30 - 150
Tetrachloro-m-xylene	25	J1	30 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: LCS 660-76627/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1333
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J022.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.502	0.436	87	37 - 150	
Aldrin	0.501	0.199	40	32 - 120	
Dieldrin	0.502	0.374	75	40 - 142	
Endrin	0.502	0.386	77	36 - 137	
gamma-BHC (Lindane)	0.501	0.376	75	24 - 118	
Heptachlor	0.502	0.249	50	34 - 114	

Matrix Spike - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28285-L-3-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1534
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J031.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDT	0.0030	U	0.483	0.439	91	37 - 150	
Aldrin	0.0017	U	0.482	0.285	59	32 - 120	
Dieldrin	0.0013	U	0.482	0.348	72	40 - 142	
Endrin	0.0030	U	0.483	0.370	77	36 - 137	
gamma-BHC (Lindane)	0.0025	U	0.482	0.343	71	24 - 118	
Heptachlor	0.0029	U	0.482	0.346	72	34 - 114	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Duplicate - Batch: 660-76627

Method: 8081A
Preparation: 3510C

Lab Sample ID: 660-28285-L-4-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1601
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76737
Prep Batch: 660-76627
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1C24J033.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
4,4'-DDD	0.0041	U	0.0040	NC	39	U
4,4'-DDE	0.0055	U	0.0054	NC	18	U
4,4'-DDT	0.0032	U	0.0031	NC	27	U
Aldrin	0.0018	U	0.0018	NC	25	U
alpha-BHC	0.0028	U	0.0027	NC	30	U
beta-BHC	0.0027	U	0.0026	NC	35	U
Chlordane (technical)	0.057	U	0.056	NC	30	U
delta-BHC	0.0028	U	0.0027	NC	41	U
Dieldrin	0.0014	U	0.0014	NC	42	U
Endosulfan I	0.0034	U	0.0034	NC	24	U
Endosulfan II	0.0033	U	0.0032	NC	22	U
Endosulfan sulfate	0.0030	U	0.0029	NC	28	U
Endrin	0.0031	U	0.0031	NC	25	U
Endrin aldehyde	0.0032	U	0.0031	NC	34	U
Endrin ketone	0.0054	U	0.0053	NC	25	U
gamma-BHC (Lindane)	0.0026	U	0.0026	NC	26	U
Heptachlor	0.0031	U	0.0030	NC	26	U
Heptachlor epoxide	0.0031	U	0.0031	NC	31	U
Methoxychlor	0.0051	U	0.0050	NC	43	U
Toxaphene	0.72	U	0.71	NC	30	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: MB 660-76627/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1237
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K019.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
PCB-1016	0.26	U	0.26	0.50
PCB-1221	0.15	U	0.15	0.50
PCB-1232	0.38	U	0.38	0.50
PCB-1242	0.077	U	0.077	0.50
PCB-1248	0.070	U	0.070	0.50
PCB-1254	0.12	U	0.12	0.50
PCB-1260	0.10	U	0.10	0.50

Surrogate	% Rec		Acceptance Limits
DCB Decachlorobiphenyl	74		30 - 150
Tetrachloro-m-xylene	26	J1	30 - 150

Lab Control Spike - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: LCS 660-76627/19-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1250
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K020.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	5.00	3.56	71	45 - 134	
PCB-1260	5.00	5.19	104	41 - 144	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1445
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K028.D
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	0.25	U	4.81	2.98	62	45 - 134	
PCB-1260	0.096	U	4.81	4.30	89	41 - 144	

Duplicate - Batch: 660-76627

Method: 8082
Preparation: 3510C

Lab Sample ID: 660-28285-L-4-A DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/24/2009 1339
Date Prepared: 03/23/2009 1105

Analysis Batch: 660-76879
Prep Batch: 660-76627
Units: ug/L

Instrument ID: Agilent 6890 ECD/ECD
Lab File ID: 1C24K023.D
Initial Weight/Volume: 1020 mL
Final Weight/Volume: 10 mL
Injection Volume: 1.0 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
PCB-1016	0.26	U	0.25	NC	34	U
PCB-1221	0.15	U	0.15	NC	110	U
PCB-1232	0.38	U	0.37	NC	86	U
PCB-1242	0.077	U	0.075	NC	74	U
PCB-1248	0.070	U	0.069	NC	30	U
PCB-1254	0.12	U	0.12	NC	39	U
PCB-1260	0.10	U	0.098	NC	34	U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 640-55037

Method: 8141A
Preparation: 3520C

Lab Sample ID: MB 640-55037/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1650
Date Prepared: 03/25/2009 1350

Analysis Batch: 640-55158
Prep Batch: 640-55037
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 2C27F33.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
Guthion	0.33	U	0.33	1.0
Bolstar	0.095	U	0.095	1.0
Chlorpyrifos	0.11	U	0.11	1.0
Coumaphos	0.081	U	0.081	1.0
Demeton-O	0.11	U	0.11	2.5
Diazinon	0.11	U	0.11	1.0
Dichlorvos	0.26	U	0.26	2.0
Dimethoate	0.32	U	0.32	2.0
Disulfoton	0.12	U	0.12	2.0
EPN	0.071	U	0.071	1.0
Ethion	0.11	U	0.11	0.50
Ethoprop	0.41	U	0.41	0.50
Ethyl Parathion	0.080	U	0.080	1.0
Fensulfothion	0.17	U	0.17	5.0
Malathion	0.092	U	0.092	1.0
Merphos	0.13	U	0.13	1.0
Methyl parathion	0.12	U	0.12	0.50
Mevinphos	0.15	U	0.15	2.0
Monochrotophos	2.6	U	2.6	10
Naled	0.36	U	0.36	5.0
Phorate	0.16	U	0.16	1.0
Ronnel	0.13	U	0.13	1.0
Stirophos	0.084	U	0.084	1.0
Sulfotepp	0.055	U	0.055	0.50
Tokuthion	0.087	U	0.087	1.0
Trichloronate	0.11	U	0.11	1.0

Surrogate	% Rec	Acceptance Limits
Triphenylphosphate (TPP)	96	37 - 139

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55037

Method: 8141A
Preparation: 3520C

LCS Lab Sample ID: LCS 640-55037/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1525
Date Prepared: 03/25/2009 1350

Analysis Batch: 640-55158
Prep Batch: 640-55037
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 2C27F28.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 640-55037/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1539
Date Prepared: 03/25/2009 1350

Analysis Batch: 640-55158
Prep Batch: 640-55037
Units: ug/L

Instrument ID: SGF Varian 3400
Lab File ID: 2C27F29.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 5.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Diazinon	85	80	42 - 132	6	30		
Ethyl Parathion	100	92	49 - 134	8	30		
Methyl parathion	95	88	43 - 140	7	30		
Ronnel	79	75	38 - 124	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Triphenylphosphate (TPP)	94	95	37 - 139

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55037

Method: 8141A
Preparation: 3520C

LCS Lab Sample ID: LCS 640-55037/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1525
Date Prepared: 03/25/2009 1350

Units: ug/L

LCSD Lab Sample ID: LCSD 640-55037/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1539
Date Prepared: 03/25/2009 1350

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Diazinon	2.50	2.50	2.11	2.00
Ethyl Parathion	2.50	2.50	2.50	2.31
Methyl parathion	2.50	2.50	2.38	2.21
Ronnel	2.50	2.50	1.97	1.86

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-55037

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	640-21257-D-1-A MS	Analysis Batch: 640-55158	Instrument ID: SGF Varian 3400
Client Matrix:	Water	Prep Batch: 640-55037	Lab File ID: 2C27F48.d
Dilution:	1.0		Initial Weight/Volume: 1000 mL
Date Analyzed:	03/27/2009 2018		Final Weight/Volume: 5.0 mL
Date Prepared:	03/25/2009 1350		Injection Volume: 1 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	640-21257-A-1-A MSD	Analysis Batch: 640-55158	Instrument ID: SGF Varian 3400
Client Matrix:	Water	Prep Batch: 640-55037	Lab File ID: 2C27F49.d
Dilution:	1.0		Initial Weight/Volume: 1000 mL
Date Analyzed:	03/27/2009 2032		Final Weight/Volume: 5.0 mL
Date Prepared:	03/25/2009 1350		Injection Volume: 1 uL
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diazinon	72	72	24 - 129	1	30		
Ethyl Parathion	87	86	32 - 138	2	44		
Methyl parathion	80	80	32 - 137	0	48		
Ronnel	67	67	30 - 135	1	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Triphenylphosphate (TPP)	83	88	37 - 139

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-55037

Method: 8141A
Preparation: 3520C

MS Lab Sample ID:	640-21257-D-1-A MS	Units: ug/L	MSD Lab Sample ID: 640-21257-A-1-A MSI
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/27/2009 2018		Date Analyzed: 03/27/2009 2032
Date Prepared:	03/25/2009 1350		Date Prepared: 03/25/2009 1350

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Diazinon	0.11	U	2.50	2.50	1.81	1.80
Ethyl Parathion	0.080	U	2.50	2.50	2.18	2.14
Methyl parathion	0.12	U	2.50	2.50	1.99	2.00
Ronnel	0.13	U	2.50	2.50	1.69	1.67

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76935

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 660-76935/1-A
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 04/02/2009 2050
Date Prepared: 03/27/2009 1535

Analysis Batch: 660-77248
Prep Batch: 660-76935
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1D02J038.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
2,4,5-T	0.20	U	0.20	1.0
2,4-D	0.20	U	0.20	1.0
2,4-DB	0.20	U	0.20	1.0
Dalapon	5.0	U	5.0	24
Dicamba	0.050	U	0.050	0.24
Dichlorprop	0.20	U	0.20	1.2
Dinoseb	0.20	U	0.20	1.2
MCPA	6.8	U	6.8	24
MCPP	7.0	U	7.0	24
Pentachlorophenol	0.017	U	0.017	0.20
Picloram	0.20	U	0.20	1.0
Silvex (2,4,5-TP)	0.20	U	0.20	1.0

Surrogate	% Rec	Acceptance Limits
2,4-Dichlorophenylacetic acid	54	33 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-76935

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 660-76935/2-A
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/02/2009 2105
Date Prepared: 03/27/2009 1535

Analysis Batch: 660-77248
Prep Batch: 660-76935
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1D02J039.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 2 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 660-76935/3-A
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/02/2009 2121
Date Prepared: 03/27/2009 1535

Analysis Batch: 660-77248
Prep Batch: 660-76935
Units: ug/L

Instrument ID: AGILENT GC ECD/ECD
Lab File ID: 1D02J040.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 2 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
2,4,5-T	92	80	15 - 155	14	48		
2,4-D	82	65	10 - 166	23	78		
Silvex (2,4,5-TP)	73	81	25 - 139	11	66		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 660-76935

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 660-76935/2-A
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/02/2009 2105
Date Prepared: 03/27/2009 1535

Units: ug/L

LCSD Lab Sample ID: LCSD 660-76935/3-A
Client Matrix: Water
Dilution: 40
Date Analyzed: 04/02/2009 2121
Date Prepared: 03/27/2009 1535

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
2,4,5-T	10.0	10.0	9.16	7.97
2,4-D	10.0	10.0	8.17	6.46
Silvex (2,4,5-TP)	10.0	10.0	7.27	8.14

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

Lab Sample ID: MB 680-133473/19-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1057
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Result	Qual	MDL	PQL
SiO2, Silica	100	U	100	500

Lab Control Spike - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

Lab Sample ID: LCS 680-133473/20-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1059
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A
Units: ug/L

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
SiO2, Silica	10000	9920	99	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

MS Lab Sample ID: 680-45745-N-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1143
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

MSD Lab Sample ID: 680-45745-N-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1146
Date Prepared: N/A

Analysis Batch: 680-133567
Prep Batch: N/A

Instrument ID: ICP/AES - D
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50.00 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
SiO2, Silica	93	94	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133567

Method: 200.7 Rev 4.4
Preparation: N/A

MS Lab Sample ID: 680-45745-N-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1143
Date Prepared: N/A

Units: ug/L

MSD Lab Sample ID: 680-45745-N-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1146
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
SiO2, Silica	12000	10000	10000	20900	21000

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 680-133647

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133647/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2011
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-135827
Prep Batch: 680-133647
Units: ug/L

Instrument ID: ICP MS - B
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Nickel	0.45	I	0.32	1.0
Zinc	6.5	U	6.5	20

Method Blank - Batch: 680-133647

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133647/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2134
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-133984
Prep Batch: 680-133647
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Silver	0.090	U	0.090	1.0
Aluminum	15	U	15	50
Arsenic	0.28	U	0.28	2.5
Beryllium	0.065	U	0.065	0.50
Calcium	50	U	50	250
Cadmium	0.12	U	0.12	0.50
Chromium	0.60	U	0.60	5.0
Copper	1.2	U	1.2	5.0
Iron	14	I	12	100
Potassium	40	U	40	250
Magnesium	14	U	14	250
Manganese	0.95	U	0.95	5.0
Sodium	90	U	90	250
Lead	0.15	U	0.15	1.5
Antimony	0.80	I	0.36	2.5
Selenium	0.60	U	0.60	2.5
Thallium	0.55	U	0.55	1.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike - Batch: 680-133647

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133647/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2019
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-135827
Prep Batch: 680-133647
Units: ug/L

Instrument ID: ICP MS - B
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nickel	100	100	100	75 - 125	
Zinc	100	103	103	75 - 125	

Lab Control Spike - Batch: 680-133647

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133647/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2140
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-133984
Prep Batch: 680-133647
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	52.8	106	75 - 125	
Aluminum	5000	5260	105	75 - 125	
Arsenic	100	107	107	75 - 125	
Beryllium	50.0	51.3	103	75 - 125	
Calcium	5000	5360	107	75 - 125	
Cadmium	50.0	52.6	105	75 - 125	
Chromium	100	104	104	75 - 125	
Copper	100	113	113	75 - 125	
Iron	5000	5460	109	75 - 125	
Potassium	5000	5220	104	75 - 125	
Magnesium	5000	5490	110	75 - 125	
Manganese	500	564	113	75 - 125	
Sodium	5000	5360	107	75 - 125	
Lead	50.0	50.2	100	75 - 125	
Antimony	50.0	50.8	102	75 - 125	
Selenium	100	111	111	75 - 125	
Thallium	40.0	41.3	103	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133647

Method: 6020
Preparation: 3005A

MS Lab Sample ID:	680-45808-A-1-C MS	Analysis Batch: 680-135827	Instrument ID: ICP MS - B
Client Matrix:	Water	Prep Batch: 680-133647	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 2106		Final Weight/Volume: 250 mL
Date Prepared:	03/26/2009 1218		

MSD Lab Sample ID:	680-45808-A-1-D MSD	Analysis Batch: 680-135827	Instrument ID: ICP MS - B
Client Matrix:	Water	Prep Batch: 680-133647	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 2114		Final Weight/Volume: 250 mL
Date Prepared:	03/26/2009 1218		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nickel	105	98	75 - 125	7	20		
Zinc	101	95	75 - 125	5	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133647

Method: 6020
Preparation: 3005A

MS Lab Sample ID: 680-45808-A-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2221
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-133984
Prep Batch: 680-133647

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 680-45808-A-1-D MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2228
Date Prepared: 03/26/2009 1218

Analysis Batch: 680-133984
Prep Batch: 680-133647

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	110	106	75 - 125	4	20		
Aluminum	110	104	75 - 125	4	20		
Arsenic	111	106	75 - 125	4	20		
Beryllium	107	103	75 - 125	4	20		
Calcium	109	103	75 - 125	4	20		
Cadmium	109	106	75 - 125	3	20		
Chromium	110	106	75 - 125	4	20		
Copper	113	108	75 - 125	5	20		
Iron	114	109	75 - 125	3	20		
Potassium	107	102	75 - 125	3	20		
Magnesium	111	105	75 - 125	3	20		
Manganese	116	109	75 - 125	3	20		
Sodium	107	97	75 - 125	2	20		
Lead	104	99	75 - 125	4	20		
Antimony	108	104	75 - 125	4	20		
Selenium	112	109	75 - 125	3	20		
Thallium	106	102	75 - 125	4	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133647

Method: 6020
Preparation: 3005A

MS Lab Sample ID: 680-45808-A-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2106
Date Prepared: 03/26/2009 1218

Units: ug/L

MSD Lab Sample ID: 680-45808-A-1-D MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2114
Date Prepared: 03/26/2009 1218

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nickel	2.4	100	100	108	101
Zinc	22	100	100	123	117

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133647

Method: 6020
Preparation: 3005A

MS Lab Sample ID: 680-45808-A-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2221
Date Prepared: 03/26/2009 1218

Units: ug/L

MSD Lab Sample ID: 680-45808-A-1-D MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2228
Date Prepared: 03/26/2009 1218

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Silver	0.090	U	50.0	50.0	55.0	52.8
Aluminum	940		5000	5000	6440	6160
Arsenic	0.94	I	100	100	112	107
Beryllium	0.41	I	50.0	50.0	54.1	52.0
Calcium	3200		5000	5000	8620	8320
Cadmium	0.12	U	50.0	50.0	54.4	52.8
Chromium	4.0	I	100	100	114	110
Copper	5.2		100	100	118	113
Iron	4500		5000	5000	10200	9900
Potassium	2000		5000	5000	7380	7140
Magnesium	2300		5000	5000	7860	7600
Manganese	430		500	500	1010	976
Sodium	15000		5000	5000	20400	19900
Lead	0.85	I	50.0	50.0	52.8	50.6
Antimony	0.36	U	50.0	50.0	53.8	51.8
Selenium	0.60	U	100	100	112	109
Thallium	0.55	U	40.0	40.0	42.6	41.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 680-133650

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-133650/18-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2000
Date Prepared: 03/26/2009 1229

Analysis Batch: 680-133984
Prep Batch: 680-133650
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Silver, Dissolved	0.090	U	0.090	1.0
Aluminum, Dissolved	15	U	15	50
Arsenic, Dissolved	0.28	U	0.28	2.5
Beryllium, Dissolved	0.065	U	0.065	0.50
Calcium, Dissolved	50	U	50	250
Cadmium, Dissolved	0.12	U	0.12	0.50
Chromium, Dissolved	0.60	U	0.60	5.0
Copper, Dissolved	1.2	U	1.2	5.0
Iron, Dissolved	12	I	12	100
Potassium, Dissolved	40	U	40	250
Magnesium, Dissolved	14	U	14	250
Manganese, Dissolved	0.95	U	0.95	5.0
Sodium, Dissolved	90	U	90	250
Lead, Dissolved	0.15	U	0.15	1.5
Antimony, Dissolved	0.69	I	0.36	2.5
Selenium, Dissolved	0.60	U	0.60	2.5
Thallium, Dissolved	0.55	U	0.55	1.0
Nickel, Dissolved	0.49	I	0.32	1.0
Zinc, Dissolved	6.5	U	6.5	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Lab Control Spike - Batch: 680-133650

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-133650/19-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2006
Date Prepared: 03/26/2009 1229

Analysis Batch: 680-133984
Prep Batch: 680-133650
Units: ug/L

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver, Dissolved	50.0	53.4	107	75 - 125	
Aluminum, Dissolved	5000	5260	105	75 - 125	
Arsenic, Dissolved	100	107	107	75 - 125	
Beryllium, Dissolved	50.0	51.8	104	75 - 125	
Calcium, Dissolved	5000	5420	108	75 - 125	
Cadmium, Dissolved	50.0	53.0	106	75 - 125	
Chromium, Dissolved	100	107	107	75 - 125	
Copper, Dissolved	100	115	115	75 - 125	
Iron, Dissolved	5000	5440	109	75 - 125	
Potassium, Dissolved	5000	5300	106	75 - 125	
Magnesium, Dissolved	5000	5500	110	75 - 125	
Manganese, Dissolved	500	566	113	75 - 125	
Sodium, Dissolved	5000	5380	108	75 - 125	
Lead, Dissolved	50.0	50.6	101	75 - 125	
Antimony, Dissolved	50.0	51.9	104	75 - 125	
Selenium, Dissolved	100	110	110	75 - 125	
Thallium, Dissolved	40.0	41.3	103	75 - 125	
Nickel, Dissolved	100	111	111	75 - 125	
Zinc, Dissolved	100	111	111	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-133650

Method: 6020
Preparation: 3005A

MS Lab Sample ID:	680-45772-C-4-C MS	Analysis Batch: 680-133984	Instrument ID: ICP MS - A
Client Matrix:	Water	Prep Batch: 680-133650	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 2053		Final Weight/Volume: 250 mL
Date Prepared:	03/26/2009 1229		

MSD Lab Sample ID:	680-45772-C-4-D MSD	Analysis Batch: 680-133984	Instrument ID: ICP MS - A
Client Matrix:	Water	Prep Batch: 680-133650	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 2100		Final Weight/Volume: 250 mL
Date Prepared:	03/26/2009 1229		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver, Dissolved	105	109	75 - 125	4	20		
Aluminum, Dissolved	106	109	75 - 125	3	20		
Arsenic, Dissolved	110	114	75 - 125	4	20		
Beryllium, Dissolved	106	109	75 - 125	3	20		
Calcium, Dissolved	170	198	75 - 125	2	20	J3	J3
Cadmium, Dissolved	106	111	75 - 125	5	20		
Chromium, Dissolved	108	113	75 - 125	4	20		
Copper, Dissolved	109	115	75 - 125	5	20		
Iron, Dissolved	174	215	75 - 125	3	20	J3	J3
Potassium, Dissolved	142	173	75 - 125	3	20	J3	J3
Magnesium, Dissolved	124	135	75 - 125	2	20		J3
Manganese, Dissolved	114	120	75 - 125	4	20		
Sodium, Dissolved	134	150	75 - 125	2	20	J3	J3
Lead, Dissolved	98	102	75 - 125	4	20		
Antimony, Dissolved	106	110	75 - 125	4	20		
Selenium, Dissolved	109	114	75 - 125	4	20		
Thallium, Dissolved	102	106	75 - 125	4	20		
Nickel, Dissolved	112	117	75 - 125	4	20		
Zinc, Dissolved	104	110	75 - 125	5	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 680-133650

Method: 6020
Preparation: 3005A

MS Lab Sample ID: 680-45772-C-4-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2053
Date Prepared: 03/26/2009 1229

Units: ug/L

MSD Lab Sample ID: 680-45772-C-4-D MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 2100
Date Prepared: 03/26/2009 1229

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Silver, Dissolved	0.090	U	50.0	50.0	52.6		54.6	
Aluminum, Dissolved	34	I	5000	5000	5320		5460	
Arsenic, Dissolved	4.3		100	100	114		119	
Beryllium, Dissolved	0.065	U	50.0	50.0	52.8		54.6	
Calcium, Dissolved	50000		5000	5000	58400	J3	59800	J3
Cadmium, Dissolved	0.12	U	50.0	50.0	52.9		55.4	
Chromium, Dissolved	0.82	I	100	100	109		114	
Copper, Dissolved	7.1		100	100	116		122	
Iron, Dissolved	51000		5000	5000	59400	J3	61400	J3
Potassium, Dissolved	42000		5000	5000	48800	J3	50400	J3
Magnesium, Dissolved	15000		5000	5000	21700		22200	J3
Manganese, Dissolved	110		500	500	681		711	
Sodium, Dissolved	35000		5000	5000	41600	J3	42400	J3
Lead, Dissolved	0.16	I	50.0	50.0	49.4		51.2	
Antimony, Dissolved	0.36	U	50.0	50.0	52.8		55.2	
Selenium, Dissolved	0.60	U	100	100	109		114	
Thallium, Dissolved	0.55	U	40.0	40.0	40.6		42.2	
Nickel, Dissolved	2.4		100	100	114		119	
Zinc, Dissolved	6.9	I	100	100	111		117	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76609

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 660-76609/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1513
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020
Mercury, Dissolved	0.000072	U	0.000072	0.00020

Lab Control Spike - Batch: 660-76609

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 660-76609/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1515
Date Prepared: 03/23/2009 0908

Analysis Batch: 660-76707
Prep Batch: 660-76609
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.000929	93	80 - 120	
Mercury, Dissolved	0.00100	0.000929	93	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76609

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	660-28285-H-1-B MS	Analysis Batch: 660-76707	Instrument ID: Hg Analyzer
Client Matrix:	Water	Prep Batch: 660-76609	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	03/23/2009 1521		Final Weight/Volume: 25 mL
Date Prepared:	03/23/2009 0908		

MSD Lab Sample ID:	660-28285-H-1-C MSD	Analysis Batch: 660-76707	Instrument ID: Hg Analyzer
Client Matrix:	Water	Prep Batch: 660-76609	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 25 mL
Date Analyzed:	03/23/2009 1523		Final Weight/Volume: 25 mL
Date Prepared:	03/23/2009 0908		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	94	94	80 - 120	0	20		
Mercury, Dissolved	94	94	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76609

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	660-28285-H-1-B MS	Units: mg/L	MSD Lab Sample ID: 660-28285-H-1-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/23/2009 1521		Date Analyzed: 03/23/2009 1523
Date Prepared:	03/23/2009 0908		Date Prepared: 03/23/2009 0908

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.000072 U	0.00100	0.00100	0.000945	0.000942
Mercury, Dissolved	0.000072 U	0.00100	0.00100	0.000945	0.000942

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 680-135366

Method: SM 2340B
Preparation: N/A

Lab Sample ID: MB 680-135366/1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 03/30/2009 2134
Date Prepared: N/A

Analysis Batch: 680-135366
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	PQL	PQL
Hardness as calcium carbonate	16	U	16	16
Calcium hardness as calcium carbonate	6.0	U	6.0	6.0
Magnesium hardness as calcium carbonate	10	U	10	10

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: MB 660-76613/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0917
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Specific Conductance	5.0	U	5.0	5.0

Lab Control Spike - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: LCS 660-76613/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0919
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Specific Conductance	1000	989	99	90 - 110	

Duplicate - Batch: 660-76613

Method: 120.1
Preparation: N/A

Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 0951
Date Prepared: N/A

Analysis Batch: 660-76613
Prep Batch: N/A
Units: umhos/cm

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	450	447	1.16		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 660-76612/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	PQL
HEM (Oil and Grease)	1.0	U	1.0	5.0

Lab Control Spike - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 660-76612/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	40.0	38.0	95	78 - 114	

Matrix Spike - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28188-J-1-A MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil and Grease)	1.6	I	41.7	32.9	75	78 - 114	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Duplicate - Batch: 660-76612

Method: 1664A
Preparation: 1664A

Lab Sample ID: 660-28187-G-1-B DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1720
Date Prepared: 03/23/2009 1011

Analysis Batch: 660-76663
Prep Batch: 660-76612
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1040 mL
Final Weight/Volume: 1000 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
HEM (Oil and Grease)	0.95	U	1.83	NC		I

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-77112/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0348
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	PQL
Chloride	0.20	U	0.20	0.50
Fluoride	0.020	U	0.020	0.050
Sulfate	0.20	U	0.20	0.50

Lab Control Spike - Batch: 660-77112

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-77112/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 0414
Date Prepared: N/A

Analysis Batch: 660-77112
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	10.0	10.6	106	90 - 110	
Fluoride	1.00	0.970	97	90 - 110	
Sulfate	10.0	10.7	107	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28307-C-3 MS	Analysis Batch:	660-77112	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 0832			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28307-C-3 MSD	Analysis Batch:	660-77112	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 0858			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	112	111	90 - 110	0	30	J3	J3
Fluoride	95	107	90 - 110	12	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28308-C-2 MS	Analysis Batch:	660-77112	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 1133			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

MSD Lab Sample ID:	660-28308-C-2 MSD	Analysis Batch:	660-77112	Instrument ID:	ICS 2000
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0			Initial Weight/Volume:	
Date Analyzed:	03/31/2009 1159			Final Weight/Volume:	2 mL
Date Prepared:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	142	117	90 - 110	7	30	J3	J3
Fluoride	99	101	90 - 110	2	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	660-28307-C-3 MS ^5	Analysis Batch: 660-77112	Instrument ID: ICS 2000
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	10		Initial Weight/Volume:
Date Analyzed:	03/31/2009 2010		Final Weight/Volume: 2 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	660-28307-C-3 MSD ^5	Analysis Batch: 660-77112	Instrument ID: ICS 2000
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	10		Initial Weight/Volume:
Date Analyzed:	03/31/2009 2036		Final Weight/Volume: 2 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate	115	108	90 - 110	2	30	J3	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28307-C-3 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/31/2009 0832
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28307-C-3 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/31/2009 0858
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chloride	23	10.0	10.0	34.6	J3	34.6	J3
Fluoride	0.20	1.00	1.00	1.01		1.14	

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28308-C-2 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/31/2009 1133
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28308-C-2 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 03/31/2009 1159
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chloride	23		10.0	10.0	37.4	J3	34.8	J3
Fluoride	0.20	U	1.00	1.00	0.987		1.01	

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77112

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-28307-C-3 MS ^5
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2010
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28307-C-3 MSD
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/31/2009 2036
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Sulfate	93	50.0	50.0	151	J3	147	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76954

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: MB 660-76954/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1200
Date Prepared: 03/28/2009 0900

Analysis Batch: 660-76957
Prep Batch: 660-76954
Units: mg/L

Instrument ID: Seal Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 6 mL
Final Weight/Volume: 6 mL

Analyte	Result	Qual	MDL	PQL
Cyanide	0.0062	U	0.0062	0.020

Lab Control Spike - Batch: 660-76954

Method: 335.4
Preparation: Distill/CN

Lab Sample ID: LCS 660-76954/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1200
Date Prepared: 03/28/2009 0900

Analysis Batch: 660-76957
Prep Batch: 660-76954
Units: mg/L

Instrument ID: Seal Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide	0.0500	0.0483	97	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76954

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID:	660-28303-1	Analysis Batch: 660-76957	Instrument ID: Seal Autoanalyzer
Client Matrix:	Water	Prep Batch: 660-76954	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/28/2009 1200		Final Weight/Volume: 100 mL
Date Prepared:	03/28/2009 0900		

MSD Lab Sample ID:	660-28303-1	Analysis Batch: 660-76957	Instrument ID: Seal Autoanalyzer
Client Matrix:	Water	Prep Batch: 660-76954	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/28/2009 1200		Final Weight/Volume: 100 mL
Date Prepared:	03/28/2009 0900		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide	86	81	90 - 110	6	20	J3	J3

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76954

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID:	660-28303-2	Analysis Batch: 660-76957	Instrument ID: Seal Autoanalyzer
Client Matrix:	Water	Prep Batch: 660-76954	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/28/2009 1200		Final Weight/Volume: 100 mL
Date Prepared:	03/28/2009 0900		

MSD Lab Sample ID:	660-28303-2	Analysis Batch: 660-76957	Instrument ID: Seal Autoanalyzer
Client Matrix:	Water	Prep Batch: 660-76954	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 100 mL
Date Analyzed:	03/28/2009 1200		Final Weight/Volume: 100 mL
Date Prepared:	03/28/2009 0900		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide	85	85	90 - 110	0	20	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76954

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID: 660-28303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1200
Date Prepared: 03/28/2009 0900

Units: mg/L

MSD Lab Sample ID: 660-28303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1200
Date Prepared: 03/28/2009 0900

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cyanide	0.0062	I	0.0500	0.0500	0.0494	J3	0.0465	J3

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76954

Method: 335.4
Preparation: Distill/CN

MS Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1200
Date Prepared: 03/28/2009 0900

Units: mg/L

MSD Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/28/2009 1200
Date Prepared: 03/28/2009 0900

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cyanide	0.0083	I	0.0500	0.0500	0.0507	J3	0.0509	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76902

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 660-76902/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1154
Date Prepared: N/A

Analysis Batch: 660-76902
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	PQL
Ammonia (as N)	0.010	U	0.010	0.020

Lab Control Spike - Batch: 660-76902

Method: 350.1
Preparation: N/A

Lab Sample ID: LCS 660-76902/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1155
Date Prepared: N/A

Analysis Batch: 660-76902
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	0.500	0.486	97	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76902

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	660-28376-F-1 MS	Analysis Batch: 660-76902	Instrument ID: Autoanalyzer
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/27/2009 1205		Final Weight/Volume: 10 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	660-28376-F-1 MSD	Analysis Batch: 660-76902	Instrument ID: Autoanalyzer
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/27/2009 1208		Final Weight/Volume: 10 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	96	100	90 - 110	4	30		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76902

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	660-28380-C-1 MS	Analysis Batch: 660-76902	Instrument ID: Autoanalyzer
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/27/2009 1224		Final Weight/Volume: 10 mL
Date Prepared:	N/A		

MSD Lab Sample ID:	660-28380-C-1 MSD	Analysis Batch: 660-76902	Instrument ID: Autoanalyzer
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 1.0 mL
Date Analyzed:	03/27/2009 1225		Final Weight/Volume: 10 mL
Date Prepared:	N/A		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia (as N)	96	96	90 - 110	0	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76902

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-28376-F-1 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1205
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28376-F-1 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1208
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	0.068	1.00	1.00	1.03	1.07

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76902

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-28380-C-1 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1224
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28380-C-1 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1225
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Ammonia (as N)	0.058	1.00	1.00	1.02	1.02

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-77055

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 660-77055/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1101
Date Prepared: N/A

Analysis Batch: 660-77055
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Nitrate Nitrite as N	0.10	U	0.10	0.50
Nitrite as N	0.10	U	0.10	0.50

Lab Control Spike - Batch: 660-77055

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 660-77055/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1101
Date Prepared: N/A

Analysis Batch: 660-77055
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	1.00	0.986	99	90 - 110	
Nitrite as N	1.00	1.00	100	90 - 110	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77055

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1101
Date Prepared: N/A

Analysis Batch: 660-77055
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1101
Date Prepared: N/A

Analysis Batch: 660-77055
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrate Nitrite as N	100	102	90 - 110	2	30		
Nitrite as N	100	100	90 - 110	0	30		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77055

Method: 353.2
Preparation: N/A

MS Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1101
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1101
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate Nitrite as N	0.10	U	1.00	1.00	1.00	1.02
Nitrite as N	0.10	U	1.00	1.00	1.00	1.00

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: MB 660-76653/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1239
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	PQL	PQL
Alkalinity	1.0	U	1.0	1.0
Bicarbonate Alkalinity as CaCO3	1.0	U	1.0	1.0
Carbonate Alkalinity as CaCO3	1.0	U	1.0	1.0

Lab Control Spike - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: LCS 660-76653/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1247
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity	118	120	101	80 - 120	

Duplicate - Batch: 660-76653

Method: SM 2320B
Preparation: N/A

Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/23/2009 1518
Date Prepared: N/A

Analysis Batch: 660-76653
Prep Batch: N/A
Units: mg/L

Instrument ID: Titrator Instrument
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Alkalinity	100		105	0.124		
Bicarbonate Alkalinity as CaCO3	100		105	0.124		
Carbonate Alkalinity as CaCO3	1.0	U	1.0	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 640-55127

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-55127/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0743
Date Prepared: N/A

Analysis Batch: 640-55127
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55127

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55127/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0743
Date Prepared: N/A

Analysis Batch: 640-55127
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55127/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0743
Date Prepared: N/A

Analysis Batch: 640-55127
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Dissolved Solids	94	97	80 - 120	2	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55127

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55127/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0743
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55127/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0743
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	300	300	283	290

Duplicate - Batch: 640-55127

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0743
Date Prepared: N/A

Analysis Batch: 640-55127
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	260	258	2	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 640-55125

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 640-55125/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0734
Date Prepared: N/A

Analysis Batch: 640-55125
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Suspended Solids	0.48	U	0.48	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55125

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 640-55125/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0734
Date Prepared: N/A

Analysis Batch: 640-55125
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-55125/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0734
Date Prepared: N/A

Analysis Batch: 640-55125
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Suspended Solids	102	102	80 - 120	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55125

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID: LCS 640-55125/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0734
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55125/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0734
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Suspended Solids	100	100	102	102

Duplicate - Batch: 640-55125

Method: SM 2540D
Preparation: N/A

Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 0735
Date Prepared: N/A

Analysis Batch: 640-55125
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 500 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	4.8	5.00	4	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76640

Method: SM 3500 CR B
Preparation: N/A

Lab Sample ID: MB 660-76640/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0900
Date Prepared: N/A

Analysis Batch: 660-76640
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Chromium (hexavalent)	0.0014	U	0.0014	0.010

Lab Control Spike - Batch: 660-76640

Method: SM 3500 CR B
Preparation: N/A

Lab Sample ID: LCS 660-76640/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0900
Date Prepared: N/A

Analysis Batch: 660-76640
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium (hexavalent)	0.200	0.183	92	85 - 115	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76640

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0900
Date Prepared: N/A

Analysis Batch: 660-76640
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0900
Date Prepared: N/A

Analysis Batch: 660-76640
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 25 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chromium (hexavalent)	82	83	85 - 115	1	20	J3	J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76640

Method: SM 3500 CR B
Preparation: N/A

MS Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0900
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 0900
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chromium (hexavalent)	0.0014 U	0.200	0.200	0.165 J3	0.166 J3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76615

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: MB 660-76615/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1930
Date Prepared: N/A

Analysis Batch: 660-76615
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	Result	Qual	NONE	NONE
pH	7.12			

Lab Control Spike - Batch: 660-76615

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: LCS 660-76615/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1930
Date Prepared: N/A

Analysis Batch: 660-76615
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.00	6.010	100	98 - 102	

Duplicate - Batch: 660-76615

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID: 660-28303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/20/2009 1930
Date Prepared: N/A

Analysis Batch: 660-76615
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 10 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	5.54	5.550	0.180		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76811

Method: SM 4500 S2 F
Preparation: N/A

Lab Sample ID: MB 660-76811/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1000
Date Prepared: N/A

Analysis Batch: 660-76811
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	PQL	PQL
Sulfide	1.0	U	1.0	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 660-76811

Method: SM 4500 S2 F
Preparation: N/A

LCS Lab Sample ID: LCS 660-76811/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1000
Date Prepared: N/A

Analysis Batch: 660-76811
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 250 mL

LCSD Lab Sample ID: LCSD 660-76811/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1000
Date Prepared: N/A

Analysis Batch: 660-76811
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 250 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Sulfide	99	100	75 - 125	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 660-76811

Method: SM 4500 S2 F
Preparation: N/A

LCS Lab Sample ID: LCS 660-76811/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1000
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 660-76811/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1000
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sulfide	20.0	20.0	19.8	19.9

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Unseeded Control Blank - Batch: 660-76669

Method: SM 5210B
Preparation: N/A

Lab Sample ID: USB 660-76669/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1950
Date Prepared: N/A

Analysis Batch: 660-76669
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Result	Qual	PQL	PQL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Seeded Control Blank - Batch: 660-76669

Method: SM 5210B
Preparation: N/A

Lab Sample ID: SCB 660-76669/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1951
Date Prepared: N/A

Analysis Batch: 660-76669
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Result	Qual	PQL	PQL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Lab Control Spike - Batch: 660-76669

Method: SM 5210B
Preparation: N/A

Lab Sample ID: LCS 660-76669/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1954
Date Prepared: N/A

Analysis Batch: 660-76669
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	170	86	85 - 115	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Duplicate - Batch: 660-76669

Method: SM 5210B
Preparation: N/A

Lab Sample ID: 660-28303-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 2011
Date Prepared: N/A

Analysis Batch: 660-76669
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 300 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Biochemical Oxygen Demand	2.0	U	2.0	NC		U

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 640-55094

Method: SM 5310C
Preparation: N/A

Lab Sample ID: MB 640-55094/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2014
Date Prepared: N/A

Analysis Batch: 640-55094
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	PQL
Total Organic Carbon	0.10	U	0.10	1.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 640-55094

Method: SM 5310C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55094/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2029
Date Prepared: N/A

Analysis Batch: 640-55094
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 640-55094/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2045
Date Prepared: N/A

Analysis Batch: 640-55094
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Total Organic Carbon	102	102	80 - 120	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 640-55094

Method: SM 5310C
Preparation: N/A

LCS Lab Sample ID: LCS 640-55094/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2029
Date Prepared: N/A

Units: mg/L

LCSD Lab Sample ID: LCSD 640-55094/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 2045
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon	10.0	10.0	10.2	10.2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 640-55094

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID: 640-21251-L-3 MS
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/26/2009 1050
Date Prepared: N/A

Analysis Batch: 640-55094
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 640-21251-L-3 MSD
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/26/2009 1105
Date Prepared: N/A

Analysis Batch: 640-55094
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon	103	103	80 - 120	0	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 640-55094

Method: SM 5310C
Preparation: N/A

MS Lab Sample ID: 640-21251-L-3 MS
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/26/2009 1050
Date Prepared: N/A

Units: mg/L

MSD Lab Sample ID: 640-21251-L-3 MSD
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/26/2009 1105
Date Prepared: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon	34	50.0	50.0	85.7	85.6

Duplicate - Batch: 640-55094

Method: SM 5310C
Preparation: N/A

Lab Sample ID: 640-21251-L-3 DU
Client Matrix: Water
Dilution: 10
Date Analyzed: 03/26/2009 1035
Date Prepared: N/A

Analysis Batch: 640-55094
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 40 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Organic Carbon	34	34.4	0	25	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Method Blank - Batch: 660-76595

Method: SM 5540C
Preparation: N/A

Lab Sample ID: MB 660-76595/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1454
Date Prepared: N/A

Analysis Batch: 660-76595
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	PQL
MBAS	0.050	U	0.050	0.10

Lab Control Spike - Batch: 660-76595

Method: SM 5540C
Preparation: N/A

Lab Sample ID: LCS 660-76595/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1454
Date Prepared: N/A

Analysis Batch: 660-76595
Prep Batch: N/A
Units: mg/l LAS MW 340

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
MBAS	0.500	0.557	111	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76595

Method: SM 5540C
Preparation: N/A

MS Lab Sample ID: 660-28303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1454
Date Prepared: N/A

Analysis Batch: 660-76595
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 660-28303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1454
Date Prepared: N/A

Analysis Batch: 660-76595
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
MBAS	100	103	80 - 120	3	30		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28303-1
Sdg Number: 660-28303

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76595

Method: SM 5540C
Preparation: N/A

MS Lab Sample ID: 660-28303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1454
Date Prepared: N/A

Units: mg/l LAS MW 340

MSD Lab Sample ID: 660-28303-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/21/2009 1454
Date Prepared: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
MBAS	0.070	I	0.500	0.500	0.569	0.587

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12216

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS PAGE #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28303
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast-RAP Design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3136	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 5

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	8141A NONE	2540C/D NONE	5310C SULF. ACID	SM4500_S2_F ZINC ACET NAOH	350.1 SULF. ACID	7470A NITR. ACID	8081A NONE	8082 NONE	8151A NONE	8270C NONE	REMARKS
								NUMBER OF CONTAINERS SUBMITTED								one broke		
3/20/09	1220	MW-35	G	X				2	2	1	1	1	1	2	2	8	2	
3/20/09	1645	MW-95	G	X				2	2	1	1	1	1	2	2	2	2	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	1900			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				32009	1900			

LABORATORY USE ONLY

CW-07

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-20-09	1900	YES ○ NO ○		660-28303	2.1°C, 2.4°C, 2.7°C, 2.9°C	

TAL8240-660 (1207)

Page 110 of 116

R625-EDC-001214-0

Serial Number 12217

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS
PAGE #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

SEE PAGE #1

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (5)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 7470A (Diss. Hg) NITR. ACID	5540C NONE	5210B NONE	335.4 NaOH	1664A HCl	524.2_Preserved HCl	200.7_CWA NONE	6020_Metals NITR. ACID	6020-Diss. Metals NITR. ACID		REMARKS
								NUMBER OF CONTAINERS SUBMITTED										
3/20/09	1220	MW-35	G	X				1	1	1	1	2	3	1	1	1		*Run dissolved Hg
3/20/09	1645	MW-95	G	X				*	1	1	1	2	3	1	1	1*		from 6020-Diss.
																		Metals if possible

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			[signature]	3/20/09	1900			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			[signature]	3-20-09	1900			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
[signature]	3-20-09	1900	YES ○ NO ○		60-28303	2.1°C, 2.4°C, 2.7°C, 2.9°C	cw-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12215

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BLENDED WATER PARAMETERS (24-hr hold samples)

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast-RAP Design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER ↓	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (5)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 3500-Cr-B/2320B; 300.0-28D/353.2 Fluoride-H/120.1	PRESERVATIVE: NONE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/20/09	1220	MW-35	G	X						1	
3/20/09	1645	MW-95	G	X						1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin Day	3/20/09	1900			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3-20-09	1900			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-2009	1900	YES ○ NO ○		660-28307	2.1°C cw-07	

TAL 8240-660 (1207)

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28503 Logged in TALS By : Amanda Harrison

Cooler Received on (date) 3-20-09 And Opened By (full name): Charles VOLE

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.1°C, 2.4°C, 2.7°C, 2.9°C Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: 4

All containers pH < 2 ? YES If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: 4

All containers pH < 2 ? YES If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 4

All containers pH < 2 ? YES If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: 4

All containers pH >12 ? 2 YES If not please comment below:

MW -35 2/ PH=10

8. Number of Unpreserved containers: 33

All containers pH between 6 and 8? YES If not please comment below:

4 / 33

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28303-1
SDG Number: 660-28303

Login Number: 28303
List Source: TestAmerica Tampa
Creator: Volz, Charles
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1, 2.4, 2.7, and 2.9 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28303-1
SDG Number: 660-28303

Login Number: 28303
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/24/09 11:37 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28303-1
SDG Number: 660-28303

Login Number: 28303
Creator: Aaron, Terron
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 03/24/09 10:28 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

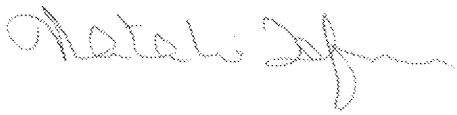
Job Number: 660-28368-1

SDG Number: 660-28368

Job Description: Tallevast-RAP Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
3/30/2009 4:28 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
03/30/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

6010B
The batch matrix spike duplicate(MSD) for batch 660-76826 was outside of control limits for Fe. The laboratory control sample(LCS) and matrix spike(MS) are within control limits. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28368-1	**MW-91**				
Dissolved					
Iron, Dissolved		3.0	0.20	mg/L	6010B
Manganese, Dissolved		0.059	0.0040	mg/L	6010B
Total Recoverable					
Iron		3.5	0.20	mg/L	6010B
Manganese		0.069	0.0040	mg/L	6010B
660-28368-2	**MW-72**				
Dissolved					
Iron, Dissolved		10	0.20	mg/L	6010B
Manganese, Dissolved		0.014	0.0040	mg/L	6010B
Total Recoverable					
Iron		11	0.20	mg/L	6010B
Manganese		0.015	0.0040	mg/L	6010B
660-28368-3	**MW-80**				
Dissolved					
Iron, Dissolved		0.38	0.20	mg/L	6010B
Manganese, Dissolved		0.049	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.44	0.20	mg/L	6010B
Manganese		0.050	0.0040	mg/L	6010B
660-28368-4	**MW-47**				
Dissolved					
Iron, Dissolved		1.7	0.20	mg/L	6010B
Manganese, Dissolved		0.032	0.0040	mg/L	6010B
Total Recoverable					
Iron		2.5	0.20	mg/L	6010B
Manganese		0.032	0.0040	mg/L	6010B
660-28368-5	**MW-68**				
Dissolved					
Manganese, Dissolved		0.0099	0.0040	mg/L	6010B
Total Recoverable					
Manganese		0.0098	0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28368-6	**MW-69**					
Dissolved						
Iron, Dissolved		0.79		0.20	mg/L	6010B
Manganese, Dissolved		0.026		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.87		0.20	mg/L	6010B
Manganese		0.026		0.0040	mg/L	6010B
660-28368-7	**MW-85**					
Dissolved						
Iron, Dissolved		0.071	I	0.20	mg/L	6010B
Manganese, Dissolved		0.013		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.078	I	0.20	mg/L	6010B
Manganese		0.014		0.0040	mg/L	6010B
660-28368-8	**MW-100**					
Dissolved						
Iron, Dissolved		16		0.20	mg/L	6010B
Manganese, Dissolved		0.12		0.0040	mg/L	6010B
Total Recoverable						
Iron		15		0.20	mg/L	6010B
Manganese		0.11		0.0040	mg/L	6010B
660-28368-9	**MW-158**					
Dissolved						
Iron, Dissolved		0.36		0.20	mg/L	6010B
Manganese, Dissolved		0.087		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.44		0.20	mg/L	6010B
Manganese		0.088		0.0040	mg/L	6010B
660-28368-10	**MW-239**					
Total Recoverable						
Iron		0.063	I	0.20	mg/L	6010B
Manganese		0.0036	I	0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28368-11	**MW-44**					
Dissolved						
Manganese, Dissolved		0.0067		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.13	I	0.20	mg/L	6010B
Manganese		0.0082		0.0040	mg/L	6010B
660-28368-12	**MW-71**					
Dissolved						
Iron, Dissolved		0.73		0.20	mg/L	6010B
Manganese, Dissolved		0.0061		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.98		0.20	mg/L	6010B
Manganese		0.0061		0.0040	mg/L	6010B
660-28368-13	**MW-98**					
Dissolved						
Iron, Dissolved		8.2		0.20	mg/L	6010B
Manganese, Dissolved		0.12		0.0040	mg/L	6010B
Total Recoverable						
Iron		8.6		0.20	mg/L	6010B
Manganese		0.13		0.0040	mg/L	6010B
660-28368-14	**MW-43**					
Dissolved						
Iron, Dissolved		6.8		0.20	mg/L	6010B
Manganese, Dissolved		0.094		0.0040	mg/L	6010B
Total Recoverable						
Iron		8.9		0.20	mg/L	6010B
Manganese		0.12		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28368-15	**MW-32**				
Dissolved					
Iron, Dissolved		22	0.20	mg/L	6010B
Manganese, Dissolved		0.016	0.0040	mg/L	6010B
Total Recoverable					
Iron		22	0.20	mg/L	6010B
Manganese		0.016	0.0040	mg/L	6010B
660-28368-16	**MW-33**				
Dissolved					
Iron, Dissolved		13	0.20	mg/L	6010B
Manganese, Dissolved		0.15	0.0040	mg/L	6010B
Total Recoverable					
Iron		14	0.20	mg/L	6010B
Manganese		0.16	0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28368-1	MW-91	Water	03/23/2009 1015	03/24/2009 1420
660-28368-2	MW-72	Water	03/23/2009 1548	03/24/2009 1420
660-28368-3	MW-80	Water	03/23/2009 1702	03/24/2009 1420
660-28368-4	MW-47	Water	03/23/2009 0952	03/24/2009 1420
660-28368-5	MW-68	Water	03/23/2009 1048	03/24/2009 1420
660-28368-6	MW-69	Water	03/23/2009 1258	03/24/2009 1420
660-28368-7	MW-85	Water	03/23/2009 1659	03/24/2009 1420
660-28368-8	MW-100	Water	03/23/2009 1143	03/24/2009 1420
660-28368-9	MW-158	Water	03/23/2009 1642	03/24/2009 1420
660-28368-10	MW-239	Water	03/23/2009 1045	03/24/2009 1420
660-28368-11	MW-44	Water	03/23/2009 1550	03/24/2009 1420
660-28368-12	MW-71	Water	03/23/2009 1342	03/24/2009 1420
660-28368-13	MW-98	Water	03/23/2009 1034	03/24/2009 1420
660-28368-14	MW-43	Water	03/23/2009 1230	03/24/2009 1420
660-28368-15	MW-32	Water	03/23/2009 1300	03/24/2009 1420
660-28368-16	MW-33	Water	03/23/2009 1215	03/24/2009 1420

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-91

Lab Sample ID: 660-28368-1
Client Matrix: Water

Date Sampled: 03/23/2009 1015
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 0942
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.5		0.050	0.20
Manganese	0.069		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1005
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	3.0		0.050	0.20
Manganese, Dissolved	0.059		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-72

Lab Sample ID: 660-28368-2
Client Matrix: Water

Date Sampled: 03/23/2009 1548
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1010
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	11		0.050	0.20
Manganese	0.015		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1016
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	10		0.050	0.20
Manganese, Dissolved	0.014		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-80

Lab Sample ID: 660-28368-3
Client Matrix: Water

Date Sampled: 03/23/2009 1702
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1033
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.44		0.050	0.20
Manganese	0.050		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1039
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.38		0.050	0.20
Manganese, Dissolved	0.049		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-47

Lab Sample ID: 660-28368-4
Client Matrix: Water

Date Sampled: 03/23/2009 0952
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1045
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	2.5		0.050	0.20
Manganese	0.032		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1050
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.7		0.050	0.20
Manganese, Dissolved	0.032		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-68

Lab Sample ID: 660-28368-5
Client Matrix: Water

Date Sampled: 03/23/2009 1048
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1056
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0098		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1102
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0099		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-69

Lab Sample ID: 660-28368-6
Client Matrix: Water

Date Sampled: 03/23/2009 1258
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1222
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.87		0.050	0.20
Manganese	0.026		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1241
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.79		0.050	0.20
Manganese, Dissolved	0.026		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-85

Lab Sample ID: 660-28368-7
Client Matrix: Water

Date Sampled: 03/23/2009 1659
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1246
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.078	I	0.050	0.20
Manganese	0.014		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1251
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.071	I	0.050	0.20
Manganese, Dissolved	0.013		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-100

Lab Sample ID: 660-28368-8
Client Matrix: Water

Date Sampled: 03/23/2009 1143
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1305
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	15		0.050	0.20
Manganese	0.11		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1309
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	16		0.050	0.20
Manganese, Dissolved	0.12		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-158

Lab Sample ID: 660-28368-9
Client Matrix: Water

Date Sampled: 03/23/2009 1642
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1314
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.44		0.050	0.20
Manganese	0.088		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1319
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.36		0.050	0.20
Manganese, Dissolved	0.087		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-239

Lab Sample ID: 660-28368-10
Client Matrix: Water

Date Sampled: 03/23/2009 1045
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1323
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.063	I	0.050	0.20
Manganese	0.0036	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1328
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-44

Lab Sample ID: 660-28368-11
Client Matrix: Water

Date Sampled: 03/23/2009 1550
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1333
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.13	I	0.050	0.20
Manganese	0.0082		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1338
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0067		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-71

Lab Sample ID: 660-28368-12
Client Matrix: Water

Date Sampled: 03/23/2009 1342
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1342
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.98		0.050	0.20
Manganese	0.0061		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1347
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.73		0.050	0.20
Manganese, Dissolved	0.0061		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-98

Lab Sample ID: 660-28368-13
Client Matrix: Water

Date Sampled: 03/23/2009 1034
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1401
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	8.6		0.050	0.20
Manganese	0.13		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1406
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	8.2		0.050	0.20
Manganese, Dissolved	0.12		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-43

Lab Sample ID: 660-28368-14
Client Matrix: Water

Date Sampled: 03/23/2009 1230
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1410
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	8.9		0.050	0.20
Manganese	0.12		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1415
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	6.8		0.050	0.20
Manganese, Dissolved	0.094		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-32

Lab Sample ID: 660-28368-15
Client Matrix: Water

Date Sampled: 03/23/2009 1300
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1420
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	22		0.050	0.20
Manganese	0.016		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/26/2009 1424
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	22		0.050	0.20
Manganese, Dissolved	0.016		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Client Sample ID: MW-33

Lab Sample ID: 660-28368-16
Client Matrix: Water

Date Sampled: 03/23/2009 1215
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1501
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	14		0.050	0.20
Manganese	0.16		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1507
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	13		0.050	0.20
Manganese, Dissolved	0.15		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Method Blank - Batch: 660-76743

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76743/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0925
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-76743

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76743/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 0931
Date Prepared: 03/25/2009 1025

Analysis Batch: 660-76823
Prep Batch: 660-76743
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C26A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.01	101	75 - 125	
Iron, Dissolved	1.00	1.01	101	75 - 125	
Manganese	1.00	0.998	100	75 - 125	
Manganese, Dissolved	1.00	0.998	100	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76743

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28368-1	Analysis Batch: 660-76823	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76743	Lab File ID: 9C26A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/26/2009 0948		Final Weight/Volume: 50 mL
Date Prepared:	03/25/2009 1025		

MSD Lab Sample ID:	660-28368-1	Analysis Batch: 660-76823	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76743	Lab File ID: 9C26A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/26/2009 0953		Final Weight/Volume: 50 mL
Date Prepared:	03/25/2009 1025		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	90	80	75 - 125	2	20		
Iron, Dissolved	90	80	75 - 125	2	20		
Manganese	95	91	75 - 125	4	20		
Manganese, Dissolved	95	91	75 - 125	4	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76743

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28368-1	Units: mg/L	MSD Lab Sample ID: 660-28368-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/26/2009 0948		Date Analyzed: 03/26/2009 0953
Date Prepared:	03/25/2009 1025		Date Prepared: 03/25/2009 1025

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	3.5	1.00	1.00	4.42	4.32
Iron, Dissolved	3.5	1.00	1.00	4.42	4.32
Manganese	0.069	1.00	1.00	1.02	0.983
Manganese, Dissolved	0.069	1.00	1.00	1.02	0.983

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Method Blank - Batch: 660-76788

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76788/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1208
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-76788

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76788/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1213
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	0.981	98	75 - 125	
Iron, Dissolved	1.00	0.981	98	75 - 125	
Manganese	1.00	1.02	102	75 - 125	
Manganese, Dissolved	1.00	1.02	102	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76788

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28368-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1227
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28368-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1232
Date Prepared: 03/26/2009 0724

Analysis Batch: 660-76839
Prep Batch: 660-76788

Instrument ID: TJA ICP
Lab File ID: 9C26B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	98	94	75 - 125	2	20		
Iron, Dissolved	98	94	75 - 125	2	20		
Manganese	102	100	75 - 125	2	20		
Manganese, Dissolved	102	100	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76788

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28368-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1227
Date Prepared: 03/26/2009 0724

Units: mg/L

MSD Lab Sample ID: 660-28368-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/26/2009 1232
Date Prepared: 03/26/2009 0724

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.87	1.00	1.00	1.85	1.80
Iron, Dissolved	0.87	1.00	1.00	1.85	1.80
Manganese	0.026	1.00	1.00	1.04	1.03
Manganese, Dissolved	0.026	1.00	1.00	1.04	1.03

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Method Blank - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76826/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1257
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76826/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/27/2009 1303
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.04	104	75 - 125	
Iron, Dissolved	1.00	1.04	104	75 - 125	
Manganese	1.00	1.03	103	75 - 125	
Manganese, Dissolved	1.00	1.03	103	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28368-1
Sdg Number: 660-28368

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28355-B-1-B MS	Analysis Batch: 660-76896	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76826	Lab File ID: 9C27A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/27/2009 1320		Final Weight/Volume: 50 mL
Date Prepared:	03/26/2009 1247		

MSD Lab Sample ID:	660-28355-B-1-C MSD	Analysis Batch: 660-76896	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-76826	Lab File ID: 9C27A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/27/2009 1326		Final Weight/Volume: 50 mL
Date Prepared:	03/26/2009 1247		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	123	147	75 - 125	2	20		J3
Iron, Dissolved	123	147	75 - 125	2	20		J3
Manganese	103	106	75 - 125	2	20		
Manganese, Dissolved	103	106	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76826

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28355-B-1-B MS	Units: mg/L	MSD Lab Sample ID: 660-28355-B-1-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/27/2009 1320		Date Analyzed: 03/27/2009 1326
Date Prepared:	03/26/2009 1247		Date Prepared: 03/26/2009 1247

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Iron	11	1.00	1.00	12.2	12.4	J3
Iron, Dissolved	11	1.00	1.00	12.2	12.4	J3
Manganese	0.016	1.00	1.00	1.05	1.07	
Manganese, Dissolved	0.016	1.00	1.00	1.05	1.07	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12219

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water Parameters Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28368
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP Design	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813.903.3138	813.903.3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: NITRIC ACID PRESERVATIVE — Total Fe/Mn	REQUIRED ANALYSIS: NITRIC ACID PRESERVATIVE — Dissolved Fe/Mn	REMARKS
3/23/09	1015	MW-91	G	X				1	1	
	1548	MW-72						1	1	
	1702	MW-80						1	1	
	0952	MW-47						1	1	
	1048	MW-68						1	1	
	1258	MW-69						1	1	
	1659	MW-85						1	1	
	1143	MW-100						1	1	
	1642	MW-158						1	1	
	1045	MW-239						1	1	
	1550	MW-44						1	1	
	1342	MW-71						1	1	

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305		3/24/09	1420
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1420			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-24-09	1420	YES ○ NO ○		660-28368	3.4 °C & 2.6 °C CW-07	

TAL8240-660 (1207)

Page 35 of 38

R625-EDC-001214-0

Serial Number 12224

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water Parameters Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: HNO3 Total Fe/Mn	REQUIRED ANALYSIS: HNO3 Dissolved Fe/Mn	PRESERVATIVE	REMARKS
3/23/09	1034	MW-98	G	X				1	1		
	1230	MW-43						1	1		
	1300	MW-32						1	1		
↓	1215	MW-33						1	1		

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/24/09	1420	YES ○ NO ○		660-23360	3.4°C 2.6°C	cw-07

TAL8240-660 (1207)

Page 36 of 38

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: CdeO-28368 Logged in TALS By : Amanda Hanson

Cooler Received on (date) 3-24-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: Lab

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 3.4 2.6 °C CW-07 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 32

All containers pH < 2 ? Y/G If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: _____

All containers pH between 6 and 8? _____ If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? _____

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28368-1
SDG Number: 660-28368

Login Number: 28368
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4 and 2.6 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

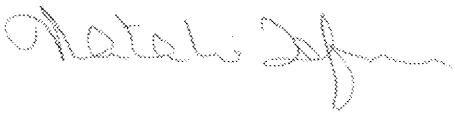
Job Number: 660-28393-1

SDG Number: 660-28393

Job Description: Tallevast- Rap Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
3/31/2009 5:24 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
03/31/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Sample MW-204 was received at pH 7 for metals. The sample was pH corrected in the lab to<2.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28393-1	**MW-134**					
Dissolved						
Manganese, Dissolved		0.0013	I	0.0040	mg/L	6010B
660-28393-2	**MW-41**					
Dissolved						
Iron, Dissolved		5.3		0.20	mg/L	6010B
Manganese, Dissolved		0.14		0.0040	mg/L	6010B
Total Recoverable						
Iron		5.6		0.20	mg/L	6010B
Manganese		0.14		0.0040	mg/L	6010B
660-28393-3	**MW-13D**					
Dissolved						
Iron, Dissolved		0.085	I	0.20	mg/L	6010B
Total Recoverable						
Iron		0.19	I	0.20	mg/L	6010B
660-28393-4	**MW-13S**					
Dissolved						
Manganese, Dissolved		0.0010	I	0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0013	I	0.0040	mg/L	6010B
660-28393-5	**MW-198**					
Dissolved						
Iron, Dissolved		8.6		0.20	mg/L	6010B
Manganese, Dissolved		0.048		0.0040	mg/L	6010B
Total Recoverable						
Iron		11		0.20	mg/L	6010B
Manganese		0.048		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28393-6	**MW-199**					
Dissolved						
Manganese, Dissolved		0.0015	I	0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0017	I	0.0040	mg/L	6010B
660-28393-8	**MW-204**					
Dissolved						
Iron, Dissolved		19		0.20	mg/L	6010B
Manganese, Dissolved		0.024		0.0040	mg/L	6010B
Total Recoverable						
Iron		19		0.20	mg/L	6010B
Manganese		0.024		0.0040	mg/L	6010B
660-28393-9	**MW-205**					
Dissolved						
Manganese, Dissolved		0.0065		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.11	I	0.20	mg/L	6010B
Manganese		0.014		0.0040	mg/L	6010B
660-28393-10	**MW-87**					
Dissolved						
Iron, Dissolved		5.8		0.20	mg/L	6010B
Manganese, Dissolved		0.13		0.0040	mg/L	6010B
Total Recoverable						
Iron		5.6		0.20	mg/L	6010B
Manganese		0.12		0.0040	mg/L	6010B
660-28393-11	**MW-14S**					
Dissolved						
Manganese, Dissolved		0.0047		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.094	I	0.20	mg/L	6010B
Manganese		0.0050		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28393-12	**MW-14D**					
Dissolved						
Iron, Dissolved		0.058	I	0.20	mg/L	6010B
Manganese, Dissolved		0.0015	I	0.0040	mg/L	6010B
Total Recoverable						
Iron		0.26		0.20	mg/L	6010B
Manganese		0.0021	I	0.0040	mg/L	6010B
660-28393-13	**MW-75**					
Dissolved						
Iron, Dissolved		10		0.20	mg/L	6010B
Manganese, Dissolved		0.067		0.0040	mg/L	6010B
Total Recoverable						
Iron		12		0.20	mg/L	6010B
Manganese		0.068		0.0040	mg/L	6010B
660-28393-14	**MW-252**					
Dissolved						
Iron, Dissolved		0.097	I	0.20	mg/L	6010B
Manganese, Dissolved		0.0089		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.24		0.20	mg/L	6010B
Manganese		0.013		0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28393-1	MW-134	Water	03/24/2009 1010	03/25/2009 1500
660-28393-2	MW-41	Water	03/24/2009 1006	03/25/2009 1500
660-28393-3	MW-13D	Water	03/24/2009 1121	03/25/2009 1500
660-28393-4	MW-13S	Water	03/24/2009 1200	03/25/2009 1500
660-28393-5	MW-198	Water	03/24/2009 1230	03/25/2009 1500
660-28393-6	MW-199	Water	03/24/2009 1300	03/25/2009 1500
660-28393-7	MW-130	Water	03/24/2009 0850	03/25/2009 1500
660-28393-8	MW-204	Water	03/24/2009 1615	03/25/2009 1500
660-28393-9	MW-205	Water	03/24/2009 1520	03/25/2009 1500
660-28393-10	MW-87	Water	03/24/2009 1506	03/25/2009 1500
660-28393-11	MW-14S	Water	03/24/2009 1432	03/25/2009 1500
660-28393-12	MW-14D	Water	03/24/2009 1514	03/25/2009 1500
660-28393-13	MW-75	Water	03/24/2009 1632	03/25/2009 1500
660-28393-14	MW-252	Water	03/24/2009 1733	03/25/2009 1500

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-134

Lab Sample ID: 660-28393-1
Client Matrix: Water

Date Sampled: 03/24/2009 1010
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1045
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1113
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0013	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-41

Lab Sample ID: 660-28393-2
Client Matrix: Water

Date Sampled: 03/24/2009 1006
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1117
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	5.6		0.050	0.20
Manganese	0.14		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1122
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	5.3		0.050	0.20
Manganese, Dissolved	0.14		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-13D

Lab Sample ID: 660-28393-3
Client Matrix: Water

Date Sampled: 03/24/2009 1121
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1127
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.19	I	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1131
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.085	I	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-13S

Lab Sample ID: 660-28393-4
Client Matrix: Water

Date Sampled: 03/24/2009 1200
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1136
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0013	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1141
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0010	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-198

Lab Sample ID: 660-28393-5
Client Matrix: Water

Date Sampled: 03/24/2009 1230
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1146
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	11		0.050	0.20
Manganese	0.048		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1150
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	8.6		0.050	0.20
Manganese, Dissolved	0.048		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-199

Lab Sample ID: 660-28393-6
Client Matrix: Water

Date Sampled: 03/24/2009 1300
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1204
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0017	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1209
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0015	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-130

Lab Sample ID: 660-28393-7
Client Matrix: Water

Date Sampled: 03/24/2009 0850
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1214
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1218
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-204

Lab Sample ID: 660-28393-8
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1223
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	19		0.050	0.20
Manganese	0.024		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1228
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	19		0.050	0.20
Manganese, Dissolved	0.024		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-205

Lab Sample ID: 660-28393-9
Client Matrix: Water

Date Sampled: 03/24/2009 1520
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1232
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.11	I	0.050	0.20
Manganese	0.014		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1237
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0065		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-87

Lab Sample ID: 660-28393-10
Client Matrix: Water

Date Sampled: 03/24/2009 1506
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1242
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	5.6		0.050	0.20
Manganese	0.12		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1247
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	5.8		0.050	0.20
Manganese, Dissolved	0.13		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-14S

Lab Sample ID: 660-28393-11
Client Matrix: Water

Date Sampled: 03/24/2009 1432
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1258
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.094	I	0.050	0.20
Manganese	0.0050		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1324
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0047		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-14D

Lab Sample ID: 660-28393-12
Client Matrix: Water

Date Sampled: 03/24/2009 1514
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1328
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.26		0.050	0.20
Manganese	0.0021	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1333
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.058	I	0.050	0.20
Manganese, Dissolved	0.0015	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-75

Lab Sample ID: 660-28393-13
Client Matrix: Water

Date Sampled: 03/24/2009 1632
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1337
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	12		0.050	0.20
Manganese	0.068		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1341
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	10		0.050	0.20
Manganese, Dissolved	0.067		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Client Sample ID: MW-252

Lab Sample ID: 660-28393-14
Client Matrix: Water

Date Sampled: 03/24/2009 1733
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1346
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.24		0.050	0.20
Manganese	0.013		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1350
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.097	I	0.050	0.20
Manganese, Dissolved	0.0089		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Method Blank - Batch: 660-76835

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76835/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1030
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-76835

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76835/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1035
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.03	103	75 - 125	
Iron, Dissolved	1.00	1.03	103	75 - 125	
Manganese	1.00	1.07	107	75 - 125	
Manganese, Dissolved	1.00	1.07	107	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76835

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28393-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1049
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28393-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1054
Date Prepared: 03/26/2009 1359

Analysis Batch: 660-77079
Prep Batch: 660-76835

Instrument ID: TJA ICP
Lab File ID: 9C31B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	103	103	75 - 125	0	20		
Iron, Dissolved	103	103	75 - 125	0	20		
Manganese	109	108	75 - 125	0	20		
Manganese, Dissolved	109	108	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76835

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28393-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1049
Date Prepared: 03/26/2009 1359

Units: mg/L

MSD Lab Sample ID: 660-28393-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1054
Date Prepared: 03/26/2009 1359

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.050	U	1.00	1.00	1.03	1.03
Iron, Dissolved	0.050	U	1.00	1.00	1.03	1.03
Manganese	0.0010	U	1.00	1.00	1.09	1.08
Manganese, Dissolved	0.0010	U	1.00	1.00	1.09	1.08

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Method Blank - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76873/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1245
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76873/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1250
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.02	102	75 - 125	
Iron, Dissolved	1.00	1.02	102	75 - 125	
Manganese	1.00	1.06	106	75 - 125	
Manganese, Dissolved	1.00	1.06	106	75 - 125	

Matrix Spike - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: 660-28393-11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1303
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Iron	0.094	I	1.00	1.13	104	75 - 125	
Iron, Dissolved	0.094	I	1.00	1.13	104	75 - 125	
Manganese	0.0050		1.00	1.06	106	75 - 125	
Manganese, Dissolved	0.0050		1.00	1.06	106	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28393-1
Sdg Number: 660-28393

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28393-11	Analysis Batch: 660-77010	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-76873	Lab File ID: 9C30B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 1320		Final Weight/Volume: 50 mL
Date Prepared:	03/27/2009 0846		

MSD Lab Sample ID:	660-28393-11	Analysis Batch: 660-77010	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-76873	Lab File ID: 9C30B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 1316		Final Weight/Volume: 50 mL
Date Prepared:	03/27/2009 0846		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	115	99	75 - 125	6	20		
Iron, Dissolved	115	99	75 - 125	6	20		
Manganese	112	103	75 - 125	8	20		
Manganese, Dissolved	112	103	75 - 125	8	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28393-11	Units: mg/L	MSD Lab Sample ID: 660-28393-11
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/30/2009 1320		Date Analyzed: 03/30/2009 1316
Date Prepared:	03/27/2009 0846		Date Prepared: 03/27/2009 0846

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.050	U	1.00	1.00	1.15	1.09
Iron, Dissolved	0.050	U	1.00	1.00	1.15	1.09
Manganese	0.0047		1.00	1.00	1.12	1.04
Manganese, Dissolved	0.0047		1.00	1.00	1.12	1.04

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12226

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water Parameters Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 660-28393
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast-RAP Design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr. Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: HNO_3 Total Fe/Mn	REQUIRED ANALYSIS: HNO_3 Dissolved Fe/Mn	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/24/09	1010	MW-134	G	X				1	1			
	1006	MW-41						1	1			
	1121	MW-13D						1	1			
	1200	MW-13S						1	1			
	1230	MW-198						1	1			
	1300	MW-199						1	1			
	0850	MW-130						1	1			
	1615	MW-204						1	1			
	1520	MW-205						1	1			
	1506	MW-87						1	1			
	1432	MW-14S						1	1			
	1514	MW-14D						1	1			

Page 30 of 33

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1500
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1500

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 660-28393	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/25/09	1500				4.0°C CU-07 & 3.1°C CU-07	

R625-EDC-001214-0

TAL8240-660 (1207)

Serial Number 12221

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water Parameters Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6660-28393
Fax:

PROJECT REFERENCE	PROJECT NO. #1	PROJECT LOCATION (STATE)	
SAMPLER'S SIGNATURE	P.O. NUMBER SEE PAGE	CONTRACT NO.	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX	
CLIENT NAME	CLIENT E-MAIL		
CLIENT ADDRESS			
COMPANY CONTRACTING THIS WORK (if applicable)			

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: HNO3 Total Fe/Mn	HNO3 Dissolved Fe/Mn	REMARKS
3/24/09	1632	MW-75	G	X				1	1	
3/24/09	1733	MW-252	G	X				1	1	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE 3/25/09	TIME 1340	RELINQUISHED BY: (SIGNATURE)	DATE 3/25/09 TIME 1520
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE 3/25/09	TIME 1340	RECEIVED BY: (SIGNATURE)	DATE 3/25/09 TIME 1520

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 6660-28393	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harris	3/25/09	1520				4.0°C CU-07 & 3.1°C CU-07	

TAL8240-660 (1207)

Page 31 of 33

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28393 Logged in TALS By : Amanda Hanson

Cooler Received on (date) 3/25/09 And Opened By (full name): Robyn Carlson & Pinky Matthews

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 4.0 & 3.1 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 28

All containers pH < 2 ? NO If not please comment below:

MW-204 (Total) ph=7

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: _____

All containers pH between 6 and 8? _____ If not please comment below:

9. Was chlorine present in any of the unpreserved containers? _____

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28393-1
SDG Number: 660-28393

Login Number: 28393
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0 and 3.1 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

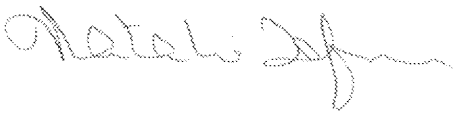
Job Number: 660-28430-1

SDG Number: 660-28430

Job Description: Tallevast-RAP Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/14/2009 1:34 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/14/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28430-1	**MW-8D**					
Dissolved						
Iron, Dissolved		0.15	I	0.20	mg/L	6010B
Manganese, Dissolved		0.016		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.17	I	0.20	mg/L	6010B
Manganese		0.016		0.0040	mg/L	6010B
660-28430-2	**MW-8S**					
Dissolved						
Manganese, Dissolved		0.12		0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.13		0.0040	mg/L	6010B
660-28430-3	**MW-109**					
Dissolved						
Iron, Dissolved		1.5		0.20	mg/L	6010B
Manganese, Dissolved		0.054		0.0040	mg/L	6010B
Total Recoverable						
Iron		2.5		0.20	mg/L	6010B
Manganese		0.058		0.0040	mg/L	6010B
660-28430-4	**MW-76**					
Dissolved						
Iron, Dissolved		6.8		0.20	mg/L	6010B
Manganese, Dissolved		0.0064		0.0040	mg/L	6010B
660-28430-5	**MW-121**					
Dissolved						
Iron, Dissolved		0.067	I	0.20	mg/L	6010B
Manganese, Dissolved		0.014		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.097	I	0.20	mg/L	6010B
Manganese		0.015		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28430-6	**MW-27**					
Dissolved						
Manganese, Dissolved		0.026		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.48		0.20	mg/L	6010B
Manganese		0.027		0.0040	mg/L	6010B
660-28430-7	**MW-248**					
Dissolved						
Manganese, Dissolved		0.080		0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.090		0.0040	mg/L	6010B
660-28430-8	**MW-105**					
Dissolved						
Manganese, Dissolved		0.0063		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.055	I	0.20	mg/L	6010B
Manganese		0.0073		0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28430-1	MW-8D	Water	03/25/2009 1440	03/26/2009 1350
660-28430-2	MW-8S	Water	03/25/2009 1545	03/26/2009 1350
660-28430-3	MW-109	Water	03/25/2009 0929	03/26/2009 1350
660-28430-4	MW-76	Water	03/25/2009 1141	03/26/2009 1350
660-28430-5	MW-121	Water	03/25/2009 1525	03/26/2009 1350
660-28430-6	MW-27	Water	03/25/2009 1655	03/26/2009 1350
660-28430-7	MW-248	Water	03/25/2009 1530	03/26/2009 1350
660-28430-8	MW-105	Water	03/25/2009 1510	03/26/2009 1350

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-8D

Lab Sample ID: 660-28430-1
Client Matrix: Water

Date Sampled: 03/25/2009 1440
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1354
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.17	I	0.050	0.20
Manganese	0.016		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1407
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.15	I	0.050	0.20
Manganese, Dissolved	0.016		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-8S

Lab Sample ID: 660-28430-2
Client Matrix: Water

Date Sampled: 03/25/2009 1545
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1412
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.13		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1416
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.12		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-109

Lab Sample ID: 660-28430-3
Client Matrix: Water

Date Sampled: 03/25/2009 0929
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1420
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	2.5		0.050	0.20
Manganese	0.058		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1425
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.5		0.050	0.20
Manganese, Dissolved	0.054		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-76

Lab Sample ID: 660-28430-4
Client Matrix: Water

Date Sampled: 03/25/2009 1141
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1429
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	6.8		0.050	0.20
Manganese, Dissolved	0.0064		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-121

Lab Sample ID: 660-28430-5
Client Matrix: Water

Date Sampled: 03/25/2009 1525
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1433
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.097	I	0.050	0.20
Manganese	0.015		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1438
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.067	I	0.050	0.20
Manganese, Dissolved	0.014		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-27

Lab Sample ID: 660-28430-6
Client Matrix: Water

Date Sampled: 03/25/2009 1655
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1442
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.48		0.050	0.20
Manganese	0.027		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1446
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.026		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-248

Lab Sample ID: 660-28430-7
Client Matrix: Water

Date Sampled: 03/25/2009 1530
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1254
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.090		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1316
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.080		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Client Sample ID: MW-105

Lab Sample ID: 660-28430-8
Client Matrix: Water

Date Sampled: 03/25/2009 1510
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1332
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.055	I	0.050	0.20
Manganese	0.0073		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1338
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0063		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Method Blank - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-76873/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1245
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-76873/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/30/2009 1250
Date Prepared: 03/27/2009 0846

Analysis Batch: 660-77010
Prep Batch: 660-76873
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.02	102	75 - 125	
Iron, Dissolved	1.00	1.02	102	75 - 125	
Manganese	1.00	1.06	106	75 - 125	
Manganese, Dissolved	1.00	1.06	106	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	660-28393-A-11-B MS	Analysis Batch: 660-77010	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-76873	Lab File ID: 9C30B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 1320		Final Weight/Volume: 50 mL
Date Prepared:	03/27/2009 0846		

MSD Lab Sample ID:	660-28393-A-11-C MSD	Analysis Batch: 660-77010	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-76873	Lab File ID: 9C30B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	03/30/2009 1316		Final Weight/Volume: 50 mL
Date Prepared:	03/27/2009 0846		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	115	99	75 - 125	6	20		
Iron, Dissolved	115	99	75 - 125	6	20		
Manganese	112	103	75 - 125	8	20		
Manganese, Dissolved	112	103	75 - 125	8	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-76873

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	660-28393-A-11-B MS	Units: mg/L	MSD Lab Sample ID: 660-28393-A-11-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	03/30/2009 1320		Date Analyzed: 03/30/2009 1316
Date Prepared:	03/27/2009 0846		Date Prepared: 03/27/2009 0846

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.050	U	1.00	1.00	1.15	1.09
Iron, Dissolved	0.050	U	1.00	1.00	1.15	1.09
Manganese	0.0047		1.00	1.00	1.12	1.04
Manganese, Dissolved	0.0047		1.00	1.00	1.12	1.04

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Method Blank - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77051/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1237
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77051/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1243
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.02	102	75 - 125	
Iron, Dissolved	1.00	1.02	102	75 - 125	
Manganese	1.00	1.00	100	75 - 125	
Manganese, Dissolved	1.00	1.00	100	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28430-1
Sdg Number: 660-28430

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28430-7	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77051	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 1300		Final Weight/Volume: 50 mL
Date Prepared:	03/31/2009 0706		

MSD Lab Sample ID:	660-28430-7	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77051	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 1305		Final Weight/Volume: 50 mL
Date Prepared:	03/31/2009 0706		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	106	107	75 - 125	1	20		
Iron, Dissolved	106	107	75 - 125	1	20		
Manganese	103	102	75 - 125	1	20		
Manganese, Dissolved	103	102	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28430-7	Units: mg/L	MSD Lab Sample ID: 660-28430-7
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/01/2009 1300		Date Analyzed: 04/01/2009 1305
Date Prepared:	03/31/2009 0706		Date Prepared: 03/31/2009 0706

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.050	U	1.00	1.00	1.06	1.07
Iron, Dissolved	0.050	U	1.00	1.00	1.06	1.07
Manganese	0.090		1.00	1.00	1.12	1.11
Manganese, Dissolved	0.090		1.00	1.00	1.12	1.11

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12237

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water Parameters

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast-RAP Design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: HNO3 Total Fe/Mn	REQUIRED ANALYSIS: HNO3 Dissolved Fe/Mn	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/25/09	1440	MW-8D	G	X				1	1			* Total Fe/Mn
	1545	MW-8S						1	1			lab results will
	0929	MW-109						1	1			be obtained from
	~~1011~~ 1141	MW-76						*	1			UIC 6010B results
	1525	MW-121						1	1			
	1655	MW-27						1	1			
	1530	MW-248						1	1			
	1510	MW-105						1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350	YES ○ NO ○		660-	3.4°C	CW-07

TAL8240-660 (1207)

Page 23 of 25

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28430 Logged in TALS By : Amanda Harrison

Cooler Received on (date) 3-26-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER (lab) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 3.4° C cw-07 *Degrees Celsius*

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

   All containers pH.< 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 16

   All containers pH < 2 ? Y/N/A If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____

   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: _____

   All containers pH between 6 and 8? _____ If not please comment below:

9. Was chlorine present in any of the unpreserved containers? _____

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28430-1
SDG Number: 660-28430

Login Number: 28430
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

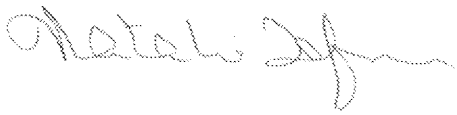
Job Number: 660-28461-1

SDG Number: 660-28461

Job Description: Tallevast-Rap Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/14/2009 2:27 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/14/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

6010B
The matrix spike/ matrix spike duplicate(MS/MSD) for batch 660-77108 are outside of control limits for Fe. The laboratory control sample (LCS) is within control limits. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28461-1	**MW-152**					
Total Recoverable						
Iron		0.14	I	0.20	mg/L	6010B
Manganese		0.0081		0.0040	mg/L	6010B
660-28461-2	**MW-151**					
Dissolved						
Iron, Dissolved		0.67		0.20	mg/L	6010B
Manganese, Dissolved		0.072		0.0040	mg/L	6010B
Total Recoverable						
Iron		6.0		0.20	mg/L	6010B
Manganese		0.076		0.0040	mg/L	6010B
660-28461-3	**MW-242**					
Dissolved						
Iron, Dissolved		1.2		0.20	mg/L	6010B
Manganese, Dissolved		0.046		0.0040	mg/L	6010B
Total Recoverable						
Iron		1.4		0.20	mg/L	6010B
Manganese		0.044		0.0040	mg/L	6010B
660-28461-4	**MW-243**					
Dissolved						
Iron, Dissolved		0.11	I	0.20	mg/L	6010B
Manganese, Dissolved		0.011		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.15	I	0.20	mg/L	6010B
Manganese		0.012		0.0040	mg/L	6010B
660-28461-5	**MW-29**					
Dissolved						
Iron, Dissolved		12		0.20	mg/L	6010B
Manganese, Dissolved		0.045		0.0040	mg/L	6010B
Total Recoverable						
Iron		13		0.20	mg/L	6010B
Manganese		0.044		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28461-6	**MW-137**					
Dissolved						
Iron, Dissolved		0.75		0.20	mg/L	6010B
Manganese, Dissolved		0.018		0.0040	mg/L	6010B
Total Recoverable						
Iron		1.2		0.20	mg/L	6010B
Manganese		0.018		0.0040	mg/L	6010B
660-28461-7	**MW-18S**					
Dissolved						
Iron, Dissolved		0.13	I	0.20	mg/L	6010B
Total Recoverable						
Iron		0.13	I	0.20	mg/L	6010B
660-28461-8	**MW-18D**					
Dissolved						
Iron, Dissolved		1.7		0.20	mg/L	6010B
Manganese, Dissolved		0.0056		0.0040	mg/L	6010B
Total Recoverable						
Iron		1.9		0.20	mg/L	6010B
Manganese		0.0056		0.0040	mg/L	6010B
660-28461-9	**MW-30**					
Dissolved						
Iron, Dissolved		9.0		0.20	mg/L	6010B
Manganese, Dissolved		0.11		0.0040	mg/L	6010B
Total Recoverable						
Iron		8.9		0.20	mg/L	6010B
Manganese		0.11		0.0040	mg/L	6010B
660-28461-10	**MW-70**					
Dissolved						
Iron, Dissolved		33		0.20	mg/L	6010B
Manganese, Dissolved		0.025		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28461-11	**MW-58**					
Dissolved						
Iron, Dissolved		0.23		0.20	mg/L	6010B
Manganese, Dissolved		0.063		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.78		0.20	mg/L	6010B
Manganese		0.073		0.0040	mg/L	6010B
660-28461-12	**MW-171**					
Dissolved						
Manganese, Dissolved		0.0079		0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0078		0.0040	mg/L	6010B
660-28461-13	**MW-64**					
Dissolved						
Iron, Dissolved		7.0		0.20	mg/L	6010B
Manganese, Dissolved		0.034		0.0040	mg/L	6010B
Total Recoverable						
Iron		7.3		0.20	mg/L	6010B
Manganese		0.034		0.0040	mg/L	6010B
660-28461-14	**MW-52**					
Dissolved						
Manganese, Dissolved		0.0039	I	0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0047		0.0040	mg/L	6010B
660-28461-15	**MW-141**					
Dissolved						
Iron, Dissolved		2.9		0.20	mg/L	6010B
Manganese, Dissolved		0.014		0.0040	mg/L	6010B
Total Recoverable						
Iron		3.3		0.20	mg/L	6010B
Manganese		0.015		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28461-16	**MW-73**					
Dissolved						
Iron, Dissolved		17		0.20	mg/L	6010B
Manganese, Dissolved		0.11		0.0040	mg/L	6010B
Total Recoverable						
Iron		18	J3	0.20	mg/L	6010B
Manganese		0.11		0.0040	mg/L	6010B
660-28461-17FD	**DUP-06**					
Dissolved						
Manganese, Dissolved		0.0028	I	0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0035	I	0.0040	mg/L	6010B
660-28461-18	**MW-28**					
Dissolved						
Iron, Dissolved		5.8		0.20	mg/L	6010B
Manganese, Dissolved		0.016		0.0040	mg/L	6010B
Total Recoverable						
Iron		6.3		0.20	mg/L	6010B
Manganese		0.018		0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28461-1	MW-152	Water	03/26/2009 0936	03/27/2009 1725
660-28461-2	MW-151	Water	03/26/2009 1128	03/27/2009 1725
660-28461-3	MW-242	Water	03/26/2009 1332	03/27/2009 1725
660-28461-4	MW-243	Water	03/26/2009 1430	03/27/2009 1725
660-28461-5	MW-29	Water	03/26/2009 1625	03/27/2009 1725
660-28461-6	MW-137	Water	03/26/2009 1650	03/27/2009 1725
660-28461-7	MW-18S	Water	03/26/2009 1125	03/27/2009 1725
660-28461-8	MW-18D	Water	03/26/2009 1115	03/27/2009 1725
660-28461-9	MW-30	Water	03/26/2009 1522	03/27/2009 1725
660-28461-10	MW-70	Water	03/26/2009 1658	03/27/2009 1725
660-28461-11	MW-58	Water	03/26/2009 1332	03/27/2009 1725
660-28461-12	MW-171	Water	03/26/2009 1039	03/27/2009 1725
660-28461-13	MW-64	Water	03/27/2009 1150	03/27/2009 1725
660-28461-14	MW-52	Water	03/27/2009 1020	03/27/2009 1725
660-28461-15	MW-141	Water	03/27/2009 1335	03/27/2009 1725
660-28461-16	MW-73	Water	03/27/2009 0927	03/27/2009 1725
660-28461-17FD	DUP-06	Water	03/27/2009 0000	03/27/2009 1725
660-28461-18	MW-28	Water	03/27/2009 1500	03/27/2009 1725

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-152

Lab Sample ID: 660-28461-1
Client Matrix: Water

Date Sampled: 03/26/2009 0936
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1422
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.14	I	0.050	0.20
Manganese	0.0081		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1428
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-151

Lab Sample ID: 660-28461-2
Client Matrix: Water

Date Sampled: 03/26/2009 1128
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1434
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	6.0		0.050	0.20
Manganese	0.076		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1439
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.67		0.050	0.20
Manganese, Dissolved	0.072		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-242

Lab Sample ID: 660-28461-3
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1445
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.4		0.050	0.20
Manganese	0.044		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1505
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.2		0.050	0.20
Manganese, Dissolved	0.046		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-243

Lab Sample ID: 660-28461-4
Client Matrix: Water

Date Sampled: 03/26/2009 1430
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1512
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.15	I	0.050	0.20
Manganese	0.012		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1518
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.11	I	0.050	0.20
Manganese, Dissolved	0.011		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-29

Lab Sample ID: 660-28461-5
Client Matrix: Water

Date Sampled: 03/26/2009 1625
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1524
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	13		0.050	0.20
Manganese	0.044		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1529
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	12		0.050	0.20
Manganese, Dissolved	0.045		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-137

Lab Sample ID: 660-28461-6
Client Matrix: Water

Date Sampled: 03/26/2009 1650
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0856
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.2		0.050	0.20
Manganese	0.018		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0915
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.75		0.050	0.20
Manganese, Dissolved	0.018		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-18S

Lab Sample ID: 660-28461-7
Client Matrix: Water

Date Sampled: 03/26/2009 1125
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0919
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.13	I	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0924
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.13	I	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-18D

Lab Sample ID: 660-28461-8
Client Matrix: Water

Date Sampled: 03/26/2009 1115
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0938
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.9		0.050	0.20
Manganese	0.0056		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0943
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.7		0.050	0.20
Manganese, Dissolved	0.0056		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-30

Lab Sample ID: 660-28461-9
Client Matrix: Water

Date Sampled: 03/26/2009 1522
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0948
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	8.9		0.050	0.20
Manganese	0.11		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0952
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	9.0		0.050	0.20
Manganese, Dissolved	0.11		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-70

Lab Sample ID: 660-28461-10
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 0957
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	33		0.050	0.20
Manganese, Dissolved	0.025		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-58

Lab Sample ID: 660-28461-11
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1002
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.78		0.050	0.20
Manganese	0.073		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1006
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.23		0.050	0.20
Manganese, Dissolved	0.063		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-171

Lab Sample ID: 660-28461-12
Client Matrix: Water

Date Sampled: 03/26/2009 1039
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1011
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0078		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1016
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0079		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-64

Lab Sample ID: 660-28461-13
Client Matrix: Water

Date Sampled: 03/27/2009 1150
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1021
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	7.3		0.050	0.20
Manganese	0.034		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1035
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	7.0		0.050	0.20
Manganese, Dissolved	0.034		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-52

Lab Sample ID: 660-28461-14
Client Matrix: Water

Date Sampled: 03/27/2009 1020
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1039
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0047		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1044
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0039	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-141

Lab Sample ID: 660-28461-15
Client Matrix: Water

Date Sampled: 03/27/2009 1335
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1049
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.3		0.050	0.20
Manganese	0.015		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/01/2009 1053
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.9		0.050	0.20
Manganese, Dissolved	0.014		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-73

Lab Sample ID: 660-28461-16
Client Matrix: Water

Date Sampled: 03/27/2009 0927
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 0945
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	18	J3	0.050	0.20
Manganese	0.11		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1009
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	17		0.050	0.20
Manganese, Dissolved	0.11		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: DUP-06

Lab Sample ID: 660-28461-17FD
Client Matrix: Water

Date Sampled: 03/27/2009 0000
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1014
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0035	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1020
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0028	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Client Sample ID: MW-28

Lab Sample ID: 660-28461-18
Client Matrix: Water

Date Sampled: 03/27/2009 1500
Date Received: 03/27/2009 1725

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1038
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	6.3		0.050	0.20
Manganese	0.018		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1043
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	5.8		0.050	0.20
Manganese, Dissolved	0.016		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Method Blank - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77051/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1237
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77051/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1243
Date Prepared: 03/31/2009 0706

Analysis Batch: 660-77141
Prep Batch: 660-77051
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D01A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.02	102	75 - 125	
Iron, Dissolved	1.00	1.02	102	75 - 125	
Manganese	1.00	1.00	100	75 - 125	
Manganese, Dissolved	1.00	1.00	100	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28430-A-7-B MS	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77051	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 1300		Final Weight/Volume: 50 mL
Date Prepared:	03/31/2009 0706		

MSD Lab Sample ID:	660-28430-A-7-C MSD	Analysis Batch: 660-77141	Instrument ID: TJA ICP TRACE
Client Matrix:	Water	Prep Batch: 660-77051	Lab File ID: 9D01A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/01/2009 1305		Final Weight/Volume: 50 mL
Date Prepared:	03/31/2009 0706		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	106	107	75 - 125	1	20		
Iron, Dissolved	106	107	75 - 125	1	20		
Manganese	103	102	75 - 125	1	20		
Manganese, Dissolved	103	102	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77051

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28430-A-7-B MS	Units: mg/L	MSD Lab Sample ID: 660-28430-A-7-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/01/2009 1300		Date Analyzed: 04/01/2009 1305
Date Prepared:	03/31/2009 0706		Date Prepared: 03/31/2009 0706

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Iron	0.050	U	1.00	1.00	1.06	1.07
Iron, Dissolved	0.050	U	1.00	1.00	1.06	1.07
Manganese	0.090		1.00	1.00	1.12	1.11
Manganese, Dissolved	0.090		1.00	1.00	1.12	1.11

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Method Blank - Batch: 660-77061

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77061/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0842
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77061

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77061/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0847
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.01	101	75 - 125	
Iron, Dissolved	1.00	1.01	101	75 - 125	
Manganese	1.00	1.03	103	75 - 125	
Manganese, Dissolved	1.00	1.03	103	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77061

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28461-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0901
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28461-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0905
Date Prepared: 03/31/2009 1003

Analysis Batch: 660-77133
Prep Batch: 660-77061

Instrument ID: TJA ICP
Lab File ID: 9D01B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	101	98	75 - 125	2	20		
Iron, Dissolved	101	98	75 - 125	2	20		
Manganese	101	99	75 - 125	2	20		
Manganese, Dissolved	101	99	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77061

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28461-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0901
Date Prepared: 03/31/2009 1003

Units: mg/L

MSD Lab Sample ID: 660-28461-6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 0905
Date Prepared: 03/31/2009 1003

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	1.2	1.00	1.00	2.21	2.18
Iron, Dissolved	1.2	1.00	1.00	2.21	2.18
Manganese	0.018	1.00	1.00	1.03	1.01
Manganese, Dissolved	0.018	1.00	1.00	1.03	1.01

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Method Blank - Batch: 660-77108

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77108/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0926
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77108

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77108/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0934
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.01	101	75 - 125	
Iron, Dissolved	1.00	1.01	101	75 - 125	
Manganese	1.00	1.00	100	75 - 125	
Manganese, Dissolved	1.00	1.00	100	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28461-1
Sdg Number: 660-28461

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77108

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28461-16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0951
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28461-16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0957
Date Prepared: 04/01/2009 0704

Analysis Batch: 660-77198
Prep Batch: 660-77108

Instrument ID: TJA ICP TRACE
Lab File ID: 9D02A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	74	49	75 - 125	1	20	J3	J3
Iron, Dissolved	74	49	75 - 125	1	20	J3	J3
Manganese	100	100	75 - 125	0	20		
Manganese, Dissolved	100	100	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77108

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28461-16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0951
Date Prepared: 04/01/2009 0704

Units: mg/L

MSD Lab Sample ID: 660-28461-16
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0957
Date Prepared: 04/01/2009 0704

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Iron	18	1.00	1.00	19.0	J3	18.7	J3
Iron, Dissolved	18	1.00	1.00	19.0	J3	18.7	J3
Manganese	0.11	1.00	1.00	1.12		1.11	
Manganese, Dissolved	0.11	1.00	1.00	1.12		1.11	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12244

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water Parameters Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28461

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP Design	60038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: HNO3 Total Fe/Mn	HNO3 Dissolved Fe/Mn	REMARKS
								PRESERVATIVE		
								NUMBER OF CONTAINERS SUBMITTED		
3/26/09	0936	MW-152	G	X				1	1	* Total Fe/Mn
	1128	MW-151						1	1	lab results will
	1332	MW-242						1	1	be obtained from
	1430	MW-243						1	1	UIC 6010B results
	1625	MW-29						1	1	
	1650	MW-137						1	1	
	1125	MW-18S						1	1	
	1115	MW-18D						1	1	
	1522	MW-30						1	1	
	1658	MW-70						*	1	
	1332	MW-58						1	1	
	1039	MW-171						1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Anna Kimel	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Carol McNulty	3-27-09	1725	YES ○ NO ○		60-28461	1.8, 2.2 °C, 1.5 °C, 2.2 °C	CW-07

TAL8240-660 (1207)

Page 37 of 40

R625-EDC-001214-0

Serial Number 12248

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water Parameters Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28461

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) *INDICATE*	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED — HNO3 Total Fe/Mn	REQUIRED ANALYSIS: NUMBER OF CONTAINERS SUBMITTED — HNO3 Dissolved Fe/Mn	REMARKS
3/27/09	1150	MW-64	G	X				1	1	
	1020	MW-52						1	1	
	1335	MW-141						1	1	
	0927	MW-73						1	1	
	—	DUP-06						1	1	
3/27/09	1500	MW-28						1	1	

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-27-09	1725	YES ○ NO ○		60-28461	1.8°C, 2.4°C, 1.5°C, 2.2°C	CW-07

TAL8240-660 (1207)

Page 38 of 40

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28461 Logged in TALS By : Charles Volz

Cooler Received on (date) 3-27-09 And Opened By (full name): 3-28-09

1. Shipper (circle one) FEDEX UPS DHL (WALK-IN) COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 1.8 1.5 2.2 2.2 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: Ø

   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: Ø

   All containers pH.< 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 35

   All containers pH < 2 ? Yes If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: Ø

   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: Ø

   All containers pH between 6 and 8? _____ If not please comment below:

9. Was chlorine present in any of the unpreserved containers? N/A

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28461-1
SDG Number: 660-28461

Login Number: 28461
Creator: Volz, Charles
List Number: 1

List Source: TestAmerica Tampa

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Received @ 1.8,2.2,1.5,2.2 Degrees C. CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

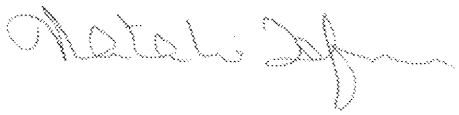
Job Number: 660-28506-1

SDG Number: 660-28506

Job Description: Tallevast - Blended Water

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/15/2009 9:05 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/15/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

The total metals bottle for sample IWI-1 was received at pH 6. The sample was lab preserved to pH <2.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28506-1	**MW-220**					
Dissolved						
Iron, Dissolved		0.32		0.20	mg/L	6010B
Manganese, Dissolved		0.021		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.39		0.20	mg/L	6010B
Manganese		0.022		0.0040	mg/L	6010B
660-28506-2	**MW-103**					
Dissolved						
Manganese, Dissolved		0.0082		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.64		0.20	mg/L	6010B
Manganese		0.0096		0.0040	mg/L	6010B
660-28506-3	**MW-219**					
Dissolved						
Iron, Dissolved		1.5		0.20	mg/L	6010B
Manganese, Dissolved		0.043		0.0040	mg/L	6010B
Total Recoverable						
Iron		2.8		0.20	mg/L	6010B
Manganese		0.043		0.0040	mg/L	6010B
660-28506-4	**MW-102**					
Dissolved						
Manganese, Dissolved		0.0025	I	0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0031	I	0.0040	mg/L	6010B
660-28506-5	**MW-126**					
Dissolved						
Iron, Dissolved		13		0.20	mg/L	6010B
Manganese, Dissolved		0.083		0.0040	mg/L	6010B
Total Recoverable						
Iron		18		0.20	mg/L	6010B
Manganese		0.092		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28506-6	**MW-48**				
Dissolved					
Iron, Dissolved		9.6	0.20	mg/L	6010B
Manganese, Dissolved		0.19	0.0040	mg/L	6010B
Total Recoverable					
Iron		9.6	0.20	mg/L	6010B
Manganese		0.19	0.0040	mg/L	6010B
660-28506-7	**MW-67**				
Dissolved					
Iron, Dissolved		4.4	0.20	mg/L	6010B
Manganese, Dissolved		0.020	0.0040	mg/L	6010B
Total Recoverable					
Iron		5.2	0.20	mg/L	6010B
Manganese		0.020	0.0040	mg/L	6010B
660-28506-8	**MW-86**				
Dissolved					
Iron, Dissolved		0.25	0.20	mg/L	6010B
Manganese, Dissolved		0.022	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.30	0.20	mg/L	6010B
Manganese		0.022	0.0040	mg/L	6010B
660-28506-9	**DUP-07**				
Dissolved					
Iron, Dissolved		0.23	0.20	mg/L	6010B
Manganese, Dissolved		0.021	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.27	0.20	mg/L	6010B
Manganese		0.021	0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28506-10	**MW-39**					
Dissolved						
Iron, Dissolved		0.98		0.20	mg/L	6010B
Manganese, Dissolved		0.092		0.0040	mg/L	6010B
Total Recoverable						
Iron		3.2		0.20	mg/L	6010B
Manganese		0.11		0.0040	mg/L	6010B
660-28506-11	**MW-38**					
Dissolved						
Iron, Dissolved		19		0.20	mg/L	6010B
Manganese, Dissolved		0.010		0.0040	mg/L	6010B
Total Recoverable						
Iron		20		0.20	mg/L	6010B
Manganese		0.011		0.0040	mg/L	6010B
660-28506-12	**MW-148**					
Dissolved						
Iron, Dissolved		0.060	I	0.20	mg/L	6010B
Manganese, Dissolved		0.0031	I	0.0040	mg/L	6010B
Total Recoverable						
Iron		0.12	I	0.20	mg/L	6010B
Manganese		0.0031	I	0.0040	mg/L	6010B
660-28506-13	**MW-146**					
Dissolved						
Iron, Dissolved		1.1		0.20	mg/L	6010B
Manganese, Dissolved		0.037		0.0040	mg/L	6010B
Total Recoverable						
Iron		3.2		0.20	mg/L	6010B
Manganese		0.038		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28506-14	**MW-114**				
Dissolved					
Iron, Dissolved		0.50	0.20	mg/L	6010B
Manganese, Dissolved		0.022	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.73	0.20	mg/L	6010B
Manganese		0.025	0.0040	mg/L	6010B
660-28506-15	**MW-26**				
Dissolved					
Iron, Dissolved		0.30	0.20	mg/L	6010B
Manganese, Dissolved		0.021	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.30	0.20	mg/L	6010B
Manganese		0.022	0.0040	mg/L	6010B
660-28506-16	**MW-107**				
Dissolved					
Iron, Dissolved		1.4	0.20	mg/L	6010B
Manganese, Dissolved		0.037	0.0040	mg/L	6010B
Total Recoverable					
Iron		2.3	0.20	mg/L	6010B
Manganese		0.038	0.0040	mg/L	6010B
660-28506-17	**IWI-1**				
Dissolved					
Manganese, Dissolved		0.0047	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.23	0.20	mg/L	6010B
Manganese		0.0074	0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28506-18	**MW-12**					
Dissolved						
Iron, Dissolved		5.9		0.20	mg/L	6010B
Manganese, Dissolved		0.0045		0.0040	mg/L	6010B
Total Recoverable						
Iron		6.1		0.20	mg/L	6010B
Manganese		0.0037	I	0.0040	mg/L	6010B
660-28506-19	**IWI-2**					
Dissolved						
Manganese, Dissolved		0.0064		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.23		0.20	mg/L	6010B
Manganese		0.0067		0.0040	mg/L	6010B
660-28506-20	**MW-10**					
Dissolved						
Iron, Dissolved		0.33		0.20	mg/L	6010B
Manganese, Dissolved		0.0029	I	0.0040	mg/L	6010B
Total Recoverable						
Iron		0.86		0.20	mg/L	6010B
Manganese		0.0040	I	0.0040	mg/L	6010B
660-28506-21	**MW-156**					
Dissolved						
Iron, Dissolved		1.6		0.20	mg/L	6010B
Manganese, Dissolved		0.043		0.0040	mg/L	6010B
Total Recoverable						
Iron		1.9		0.20	mg/L	6010B
Manganese		0.042		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28506-22	**MW-157**				
Dissolved					
Iron, Dissolved		0.23	0.20	mg/L	6010B
Manganese, Dissolved		0.012	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.55	0.20	mg/L	6010B
Manganese		0.013	0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28506-1	MW-220	Water	03/30/2009 1410	03/31/2009 1430
660-28506-2	MW-103	Water	03/30/2009 1036	03/31/2009 1430
660-28506-3	MW-219	Water	03/30/2009 1456	03/31/2009 1430
660-28506-4	MW-102	Water	03/30/2009 0955	03/31/2009 1430
660-28506-5	MW-126	Water	03/30/2009 1621	03/31/2009 1430
660-28506-6	MW-48	Water	03/30/2009 1457	03/31/2009 1430
660-28506-7	MW-67	Water	03/30/2009 1349	03/31/2009 1430
660-28506-8	MW-86	Water	03/30/2009 1051	03/31/2009 1430
660-28506-8MS	MW-86 MS	Water	03/30/2009 1051	03/31/2009 1430
660-28506-8MSD	MW-86 MSD	Water	03/30/2009 1051	03/31/2009 1430
660-28506-9	DUP-07	Water	03/30/2009 0000	03/31/2009 1430
660-28506-10	MW-39	Water	03/30/2009 1145	03/31/2009 1430
660-28506-11	MW-38	Water	03/30/2009 1115	03/31/2009 1430
660-28506-12	MW-148	Water	03/30/2009 1020	03/31/2009 1430
660-28506-13	MW-146	Water	03/30/2009 1010	03/31/2009 1430
660-28506-14	MW-114	Water	03/30/2009 1720	03/31/2009 1430
660-28506-15	MW-26	Water	03/30/2009 1500	03/31/2009 1430
660-28506-16	MW-107	Water	03/30/2009 1610	03/31/2009 1430
660-28506-17	IWI-1	Water	03/30/2009 1042	03/31/2009 1430
660-28506-18	MW-12	Water	03/30/2009 1340	03/31/2009 1430
660-28506-19	IWI-2	Water	03/30/2009 0951	03/31/2009 1430
660-28506-20	MW-10	Water	03/30/2009 1422	03/31/2009 1430
660-28506-21	MW-156	Water	03/30/2009 1635	03/31/2009 1430
660-28506-22	MW-157	Water	03/30/2009 1618	03/31/2009 1430

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-220

Lab Sample ID: 660-28506-1
Client Matrix: Water

Date Sampled: 03/30/2009 1410
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1048
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.39		0.050	0.20
Manganese	0.022		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1052
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.32		0.050	0.20
Manganese, Dissolved	0.021		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-103

Lab Sample ID: 660-28506-2
Client Matrix: Water

Date Sampled: 03/30/2009 1036
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1057
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.64		0.050	0.20
Manganese	0.0096		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1101
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0082		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-219

Lab Sample ID: 660-28506-3
Client Matrix: Water

Date Sampled: 03/30/2009 1456
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1106
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	2.8		0.050	0.20
Manganese	0.043		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1111
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.5		0.050	0.20
Manganese, Dissolved	0.043		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-102

Lab Sample ID: 660-28506-4
Client Matrix: Water

Date Sampled: 03/30/2009 0955
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1115
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0031	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1120
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0025	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-126

Lab Sample ID: 660-28506-5
Client Matrix: Water

Date Sampled: 03/30/2009 1621
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1124
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	18		0.050	0.20
Manganese	0.092		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1129
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	13		0.050	0.20
Manganese, Dissolved	0.083		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-48

Lab Sample ID: 660-28506-6
Client Matrix: Water

Date Sampled: 03/30/2009 1457
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1142
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	9.6		0.050	0.20
Manganese	0.19		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1147
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	9.6		0.050	0.20
Manganese, Dissolved	0.19		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-67

Lab Sample ID: 660-28506-7
Client Matrix: Water

Date Sampled: 03/30/2009 1349
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1151
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	5.2		0.050	0.20
Manganese	0.020		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1156
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	4.4		0.050	0.20
Manganese, Dissolved	0.020		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-86

Lab Sample ID: 660-28506-8
Client Matrix: Water

Date Sampled: 03/30/2009 1051
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1007
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.30		0.050	0.20
Manganese	0.022		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/02/2009 1025
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.25		0.050	0.20
Manganese, Dissolved	0.022		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: DUP-07

Lab Sample ID: 660-28506-9
Client Matrix: Water

Date Sampled: 03/30/2009 0000
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1042
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.27		0.050	0.20
Manganese	0.021		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1105
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.23		0.050	0.20
Manganese, Dissolved	0.021		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-39

Lab Sample ID: 660-28506-10
Client Matrix: Water

Date Sampled: 03/30/2009 1145
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1111
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.2		0.050	0.20
Manganese	0.11		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1117
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.98		0.050	0.20
Manganese, Dissolved	0.092		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-38

Lab Sample ID: 660-28506-11
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1134
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	20		0.050	0.20
Manganese	0.011		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1140
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	19		0.050	0.20
Manganese, Dissolved	0.010		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-148

Lab Sample ID: 660-28506-12
Client Matrix: Water

Date Sampled: 03/30/2009 1020
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1146
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.12	I	0.050	0.20
Manganese	0.0031	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/03/2009 1152
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.060	I	0.050	0.20
Manganese, Dissolved	0.0031	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-146

Lab Sample ID: 660-28506-13
Client Matrix: Water

Date Sampled: 03/30/2009 1010
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 0935
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.2		0.050	0.20
Manganese	0.038		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 0954
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.1		0.050	0.20
Manganese, Dissolved	0.037		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-114

Lab Sample ID: 660-28506-14
Client Matrix: Water

Date Sampled: 03/30/2009 1720
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 0958
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.73		0.050	0.20
Manganese	0.025		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1003
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.50		0.050	0.20
Manganese, Dissolved	0.022		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-26

Lab Sample ID: 660-28506-15
Client Matrix: Water

Date Sampled: 03/30/2009 1500
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1017
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.30		0.050	0.20
Manganese	0.022		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1022
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.30		0.050	0.20
Manganese, Dissolved	0.021		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-107

Lab Sample ID: 660-28506-16
Client Matrix: Water

Date Sampled: 03/30/2009 1610
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1027
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	2.3		0.050	0.20
Manganese	0.038		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1031
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.4		0.050	0.20
Manganese, Dissolved	0.037		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: IWI-1

Lab Sample ID: 660-28506-17
Client Matrix: Water

Date Sampled: 03/30/2009 1042
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1036
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.23		0.050	0.20
Manganese	0.0074		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1041
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0047		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-12

Lab Sample ID: 660-28506-18
Client Matrix: Water

Date Sampled: 03/30/2009 1340
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1045
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	6.1		0.050	0.20
Manganese	0.0037	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1050
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	5.9		0.050	0.20
Manganese, Dissolved	0.0045		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: IWI-2

Lab Sample ID: 660-28506-19
Client Matrix: Water

Date Sampled: 03/30/2009 0951
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1055
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.23		0.050	0.20
Manganese	0.0067		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1059
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0064		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-10

Lab Sample ID: 660-28506-20
Client Matrix: Water

Date Sampled: 03/30/2009 1422
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1129
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.86		0.050	0.20
Manganese	0.0040	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1134
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.33		0.050	0.20
Manganese, Dissolved	0.0029	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-156

Lab Sample ID: 660-28506-21
Client Matrix: Water

Date Sampled: 03/30/2009 1635
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1138
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.9		0.050	0.20
Manganese	0.042		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1143
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.6		0.050	0.20
Manganese, Dissolved	0.043		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Client Sample ID: MW-157

Lab Sample ID: 660-28506-22
Client Matrix: Water

Date Sampled: 03/30/2009 1618
Date Received: 03/31/2009 1430

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1148
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.55		0.050	0.20
Manganese	0.013		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/06/2009 1152
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.23		0.050	0.20
Manganese, Dissolved	0.012		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Method Blank - Batch: 660-77132

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77132/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0954
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77132

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77132/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 0958
Date Prepared: 04/01/2009 1114

Analysis Batch: 660-77196
Prep Batch: 660-77132
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D02B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.03	103	75 - 125	
Iron, Dissolved	1.00	1.03	103	75 - 125	
Manganese	1.00	1.05	105	75 - 125	
Manganese, Dissolved	1.00	1.05	105	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77132

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28506-8	Analysis Batch: 660-77196	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77132	Lab File ID: 9D02B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/02/2009 1012		Final Weight/Volume: 50 mL
Date Prepared:	04/01/2009 1114		

MSD Lab Sample ID:	660-28506-8	Analysis Batch: 660-77196	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77132	Lab File ID: 9D02B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/02/2009 1016		Final Weight/Volume: 50 mL
Date Prepared:	04/01/2009 1114		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	97	99	75 - 125	1	20		
Manganese	104	104	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77132

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	660-28506-8	Analysis Batch: 660-77196	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77132	Lab File ID: 9D02B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/02/2009 1030		Final Weight/Volume: 50 mL
Date Prepared:	04/01/2009 1114		

MSD Lab Sample ID:	660-28506-8	Analysis Batch: 660-77196	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77132	Lab File ID: 9D02B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/02/2009 1034		Final Weight/Volume: 50 mL
Date Prepared:	04/01/2009 1114		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron, Dissolved	96	97	75 - 125	1	20		
Manganese, Dissolved	102	103	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77132

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28506-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 1012
Date Prepared: 04/01/2009 1114

Units: mg/L

MSD Lab Sample ID: 660-28506-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 1016
Date Prepared: 04/01/2009 1114

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.30	1.00	1.00	1.27	1.28
Manganese	0.022	1.00	1.00	1.06	1.07

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77132

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID: 660-28506-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 1030
Date Prepared: 04/01/2009 1114

Units: mg/L

MSD Lab Sample ID: 660-28506-8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/02/2009 1034
Date Prepared: 04/01/2009 1114

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron, Dissolved	0.25	1.00	1.00	1.20	1.22
Manganese, Dissolved	0.022	1.00	1.00	1.04	1.05

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Method Blank - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77180/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1025
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77180/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1031
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.08	108	75 - 125	
Iron, Dissolved	1.00	1.08	108	75 - 125	
Manganese	1.00	1.07	107	75 - 125	
Manganese, Dissolved	1.00	1.07	107	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28506-9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1048
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28506-9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1054
Date Prepared: 04/02/2009 1046

Analysis Batch: 660-77252
Prep Batch: 660-77180

Instrument ID: TJA ICP TRACE
Lab File ID: 9D03A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	107	106	75 - 125	1	20		
Iron, Dissolved	107	106	75 - 125	1	20		
Manganese	106	104	75 - 125	1	20		
Manganese, Dissolved	106	104	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77180

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28506-9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1048
Date Prepared: 04/02/2009 1046

Units: mg/L

MSD Lab Sample ID: 660-28506-9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/03/2009 1054
Date Prepared: 04/02/2009 1046

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.27	1.00	1.00	1.34	1.33
Iron, Dissolved	0.27	1.00	1.00	1.34	1.33
Manganese	0.021	1.00	1.00	1.08	1.07
Manganese, Dissolved	0.021	1.00	1.00	1.08	1.07

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Method Blank - Batch: 660-77184

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77184/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0903
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77184

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77184/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/06/2009 0908
Date Prepared: 04/02/2009 1128

Analysis Batch: 660-77348
Prep Batch: 660-77184
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D06B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.04	104	75 - 125	
Iron, Dissolved	1.00	1.04	104	75 - 125	
Manganese	1.00	1.07	107	75 - 125	
Manganese, Dissolved	1.00	1.07	107	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28506-1
Sdg Number: 660-28506

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77184

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28506-13	Analysis Batch: 660-77348	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77184	Lab File ID: 9D06B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/06/2009 0940		Final Weight/Volume: 50 mL
Date Prepared:	04/02/2009 1128		

MSD Lab Sample ID:	660-28506-13	Analysis Batch: 660-77348	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77184	Lab File ID: 9D06B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/06/2009 0944		Final Weight/Volume: 50 mL
Date Prepared:	04/02/2009 1128		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	96	92	75 - 125	1	20		
Iron, Dissolved	96	92	75 - 125	1	20		
Manganese	106	105	75 - 125	1	20		
Manganese, Dissolved	106	105	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77184

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28506-13	Units: mg/L	MSD Lab Sample ID: 660-28506-13
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/06/2009 0940		Date Analyzed: 04/06/2009 0944
Date Prepared:	04/02/2009 1128		Date Prepared: 04/02/2009 1128

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	3.2	1.00	1.00	4.14	4.10
Iron, Dissolved	3.2	1.00	1.00	4.14	4.10
Manganese	0.038	1.00	1.00	1.09	1.09
Manganese, Dissolved	0.038	1.00	1.00	1.09	1.09

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 06426

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6060-28506
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLEVAST	60338655.0020	
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Park Dr #160, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY (X)

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: TOTAL Fe/mW	REQUIRED ANALYSIS: Dissolved Fe/mW	PRESERVATIVE: HNO_3	PRESERVATIVE: HNO_3	REMARKS
								NUMBER OF CONTAINERS SUBMITTED				
3/30/09	1020	MW-148	G	X				1	1			
	1010	MW-146						1	1			
	1720	MW-114						1	1			
	1500	MW-26						1	1			
	1610	MW-107						1	1			
	~~1650~~ 1042 MW	~~PW-34~~ MW						1	1			IWI-1
	~~1606~~ 1340 MW	~~MW-94~~ MW						1	1			MW-12
	0951	IWI-2						1	1			
	1422	MW-10						1	1			
	1635	MW-156						1	1			
	1618	MW-157						1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1350		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1350	Amanda Hanson	3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430	YES ( ) NO ( )		6060-28506	2.3°C cw27	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12205

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6060-28506
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP design	80038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: Total Fe/MS	REQUIRED ANALYSIS: Dissolved Fe/MS	REMARKS
								HNO3	HNO3 PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED
3/30/09	1410	MW-220	G	✓				1	1	
	1036	MW-103						1	1	
	1456	MW-219						1	1	
	0955	MW-102						1	1	
	1621	MW-126						1	1	
	1457	MW-48						1	1	
	1349	MW-67						1	1	
	1051	MW-86						1	1	
	1051	MW-86 MS/MSD						1	1	
	~~1051~~ MD	~~MW-86 MS/MSD~~ MD DUP-07						1	1	
	1145	MW-39						1	1	
	1115	MW-38	↓	↓				1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320	Amanda Lanier	3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/31/09	1430	YES ○ NO ○		6060-28506	2.3 °C	MW-07

TAL8240-660

Page 45 of 47

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28506 Logged in TALS By Amanda Harrison

Cooler Received on (date) 3/31/09 And Opened By (full name): Charles Veliz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.3 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 4/6

   All containers pH < 2 ? NC If not please comment below:

   IWI-1 (total) ph=6

7. Number of NaOH (sodium hydroxide) preserved containers: _____

   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: _____

   All containers pH between 6 and 8? _____ If not please comment below:

9. Was chlorine present in any of the unpreserved containers? _____

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28506-1
SDG Number: 660-28506

Login Number: 28506
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

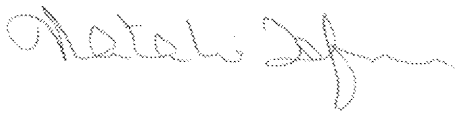
Job Number: 660-28539-1

SDG Number: 660-28539

Job Description: Tallevast - RAP Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/15/2009 9:38 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/15/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

6010B
The batch matrix spike(MS) for batch 660-77377(job 660-28611) is outside of control limits for Fe. The laboratory control sample (LCS) and matrix spike duplicate (MSD) are within control limits. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28539-1	**MW-163**					
Dissolved						
Manganese, Dissolved		0.020		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.086	I	0.20	mg/L	6010B
Manganese		0.020		0.0040	mg/L	6010B
660-28539-2	**MW-62**					
Dissolved						
Iron, Dissolved		3.4		0.20	mg/L	6010B
Manganese, Dissolved		0.041		0.0040	mg/L	6010B
Total Recoverable						
Iron		5.8		0.20	mg/L	6010B
Manganese		0.040		0.0040	mg/L	6010B
660-28539-3	**MW-92**					
Dissolved						
Manganese, Dissolved		0.0097		0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0097		0.0040	mg/L	6010B
660-28539-4	**MW-93**					
Dissolved						
Manganese, Dissolved		0.0058		0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0068		0.0040	mg/L	6010B
660-28539-5	**MW-15S**					
Dissolved						
Iron, Dissolved		0.15	I	0.20	mg/L	6010B
Manganese, Dissolved		0.021		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.15	I	0.20	mg/L	6010B
Manganese		0.020		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28539-6	**MW-20**					
Dissolved						
Iron, Dissolved		2.3		0.20	mg/L	6010B
Manganese, Dissolved		0.012		0.0040	mg/L	6010B
Total Recoverable						
Iron		2.6		0.20	mg/L	6010B
Manganese		0.012		0.0040	mg/L	6010B
660-28539-7	**MW-135**					
Dissolved						
Iron, Dissolved		0.20		0.20	mg/L	6010B
Manganese, Dissolved		0.0061		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.32		0.20	mg/L	6010B
Manganese		0.0075		0.0040	mg/L	6010B
660-28539-8	**MW-120**					
Dissolved						
Iron, Dissolved		1.6		0.20	mg/L	6010B
Manganese, Dissolved		0.042		0.0040	mg/L	6010B
Total Recoverable						
Iron		1.9		0.20	mg/L	6010B
Manganese		0.042		0.0040	mg/L	6010B
660-28539-9	**MW-117**					
Dissolved						
Iron, Dissolved		0.19	I	0.20	mg/L	6010B
Manganese, Dissolved		0.0048		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.34		0.20	mg/L	6010B
Manganese		0.0067		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28539-10	**MW-183**					
Dissolved						
Iron, Dissolved		10		0.20	mg/L	6010B
Manganese, Dissolved		0.027		0.0040	mg/L	6010B
Total Recoverable						
Iron		11		0.20	mg/L	6010B
Manganese		0.029		0.0040	mg/L	6010B
660-28539-11	**MW-184**					
Dissolved						
Iron, Dissolved		0.50		0.20	mg/L	6010B
Manganese, Dissolved		0.015		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.74		0.20	mg/L	6010B
Manganese		0.015		0.0040	mg/L	6010B
660-28539-12	**MW-189**					
Dissolved						
Iron, Dissolved		0.080	I	0.20	mg/L	6010B
Manganese, Dissolved		0.0048		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.081	I	0.20	mg/L	6010B
Manganese		0.0047		0.0040	mg/L	6010B
660-28539-13	**MW-168**					
Dissolved						
Iron, Dissolved		0.87		0.20	mg/L	6010B
Manganese, Dissolved		0.027		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.93		0.20	mg/L	6010B
Manganese		0.028		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28539-14	**MW-188**					
Dissolved						
Iron, Dissolved		9.4		0.20	mg/L	6010B
Manganese, Dissolved		0.038		0.0040	mg/L	6010B
Total Recoverable						
Iron		9.5		0.20	mg/L	6010B
Manganese		0.036		0.0040	mg/L	6010B
660-28539-15	**MW-118**					
Dissolved						
Iron, Dissolved		3.7		0.20	mg/L	6010B
Manganese, Dissolved		0.046		0.0040	mg/L	6010B
Total Recoverable						
Iron		6.4		0.20	mg/L	6010B
Manganese		0.048		0.0040	mg/L	6010B
660-28539-16	**MW-167**					
Dissolved						
Iron, Dissolved		2.8		0.20	mg/L	6010B
Manganese, Dissolved		0.053		0.0040	mg/L	6010B
Total Recoverable						
Iron		3.2		0.20	mg/L	6010B
Manganese		0.053		0.0040	mg/L	6010B
660-28539-17	**MW-185**					
Dissolved						
Iron, Dissolved		0.29		0.20	mg/L	6010B
Manganese, Dissolved		0.0069		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.34		0.20	mg/L	6010B
Manganese		0.0069		0.0040	mg/L	6010B
660-28539-18	**MW-15D**					
Dissolved						
Iron, Dissolved		0.079	I	0.20	mg/L	6010B
Total Recoverable						
Iron		0.099	I	0.20	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28539-19	**MW-115**				
Dissolved					
Iron, Dissolved		0.95	0.20	mg/L	6010B
Manganese, Dissolved		0.056	0.0040	mg/L	6010B
Total Recoverable					
Iron		1.4	0.20	mg/L	6010B
Manganese		0.057	0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28539-1	MW-163	Water	04/01/2009 0905	04/01/2009 1415
660-28539-2	MW-62	Water	03/31/2009 1515	04/01/2009 1415
660-28539-3	MW-92	Water	03/31/2009 1415	04/01/2009 1415
660-28539-4	MW-93	Water	03/31/2009 1505	04/01/2009 1415
660-28539-5	MW-15S	Water	03/31/2009 1110	04/01/2009 1415
660-28539-6	MW-20	Water	03/31/2009 0942	04/01/2009 1415
660-28539-7	MW-135	Water	03/31/2009 1555	04/01/2009 1415
660-28539-8	MW-120	Water	03/31/2009 1056	04/01/2009 1415
660-28539-9	MW-117	Water	03/31/2009 0930	04/01/2009 1415
660-28539-10	MW-183	Water	03/31/2009 1400	04/01/2009 1415
660-28539-11	MW-184	Water	03/31/2009 1452	04/01/2009 1415
660-28539-12	MW-189	Water	03/31/2009 1315	04/01/2009 1415
660-28539-13	MW-168	Water	03/31/2009 1318	04/01/2009 1415
660-28539-14	MW-188	Water	03/31/2009 1340	04/01/2009 1415
660-28539-15	MW-118	Water	03/31/2009 1002	04/01/2009 1415
660-28539-16	MW-167	Water	03/31/2009 1354	04/01/2009 1415
660-28539-17	MW-185	Water	03/31/2009 1524	04/01/2009 1415
660-28539-18	MW-15D	Water	03/31/2009 1035	04/01/2009 1415
660-28539-19	MW-115	Water	03/31/2009 0932	04/01/2009 1415

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-163

Lab Sample ID: 660-28539-1
Client Matrix: Water

Date Sampled: 04/01/2009 0905
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 0932
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.086	I	0.050	0.20
Manganese	0.020		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 0937
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.020		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-62

Lab Sample ID: 660-28539-2
Client Matrix: Water

Date Sampled: 03/31/2009 1515
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 0951
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	5.8		0.050	0.20
Manganese	0.040		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 0955
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	3.4		0.050	0.20
Manganese, Dissolved	0.041		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-92

Lab Sample ID: 660-28539-3
Client Matrix: Water

Date Sampled: 03/31/2009 1415
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1000
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0097		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1005
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0097		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-93

Lab Sample ID: 660-28539-4
Client Matrix: Water

Date Sampled: 03/31/2009 1505
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 0909
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0068		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 0928
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0058		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-15S

Lab Sample ID: 660-28539-5
Client Matrix: Water

Date Sampled: 03/31/2009 1110
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1009
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.15	I	0.050	0.20
Manganese	0.020		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1014
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.15	I	0.050	0.20
Manganese, Dissolved	0.021		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-20

Lab Sample ID: 660-28539-6
Client Matrix: Water

Date Sampled: 03/31/2009 0942
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1018
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	2.6		0.050	0.20
Manganese	0.012		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1023
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.3		0.050	0.20
Manganese, Dissolved	0.012		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-135

Lab Sample ID: 660-28539-7
Client Matrix: Water

Date Sampled: 03/31/2009 1555
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1028
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.32		0.050	0.20
Manganese	0.0075		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1032
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.20		0.050	0.20
Manganese, Dissolved	0.0061		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-120

Lab Sample ID: 660-28539-8
Client Matrix: Water

Date Sampled: 03/31/2009 1056
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1046
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.9		0.050	0.20
Manganese	0.042		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1051
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	1.6		0.050	0.20
Manganese, Dissolved	0.042		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-117

Lab Sample ID: 660-28539-9
Client Matrix: Water

Date Sampled: 03/31/2009 0930
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1055
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.34		0.050	0.20
Manganese	0.0067		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1100
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.19	I	0.050	0.20
Manganese, Dissolved	0.0048		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-183

Lab Sample ID: 660-28539-10
Client Matrix: Water

Date Sampled: 03/31/2009 1400
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1104
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	11		0.050	0.20
Manganese	0.029		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1109
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	10		0.050	0.20
Manganese, Dissolved	0.027		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-184

Lab Sample ID: 660-28539-11
Client Matrix: Water

Date Sampled: 03/31/2009 1452
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 0928
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.74		0.050	0.20
Manganese	0.015		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 0942
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.50		0.050	0.20
Manganese, Dissolved	0.015		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-189

Lab Sample ID: 660-28539-12
Client Matrix: Water

Date Sampled: 03/31/2009 1315
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1311
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.081	I	0.050	0.20
Manganese	0.0047		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1316
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.080	I	0.050	0.20
Manganese, Dissolved	0.0048		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-168

Lab Sample ID: 660-28539-13
Client Matrix: Water

Date Sampled: 03/31/2009 1318
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 0947
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.93		0.050	0.20
Manganese	0.028		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 0951
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.87		0.050	0.20
Manganese, Dissolved	0.027		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-188

Lab Sample ID: 660-28539-14
Client Matrix: Water

Date Sampled: 03/31/2009 1340
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 0956
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	9.5		0.050	0.20
Manganese	0.036		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1000
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	9.4		0.050	0.20
Manganese, Dissolved	0.038		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-118

Lab Sample ID: 660-28539-15
Client Matrix: Water

Date Sampled: 03/31/2009 1002
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1005
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	6.4		0.050	0.20
Manganese	0.048		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1010
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	3.7		0.050	0.20
Manganese, Dissolved	0.046		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-167

Lab Sample ID: 660-28539-16
Client Matrix: Water

Date Sampled: 03/31/2009 1354
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1014
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.2		0.050	0.20
Manganese	0.053		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1019
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.8		0.050	0.20
Manganese, Dissolved	0.053		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-185

Lab Sample ID: 660-28539-17
Client Matrix: Water

Date Sampled: 03/31/2009 1524
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1024
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.34		0.050	0.20
Manganese	0.0069		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1037
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.29		0.050	0.20
Manganese, Dissolved	0.0069		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-15D

Lab Sample ID: 660-28539-18
Client Matrix: Water

Date Sampled: 03/31/2009 1035
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1042
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.099	I	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1047
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.079	I	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Client Sample ID: MW-115

Lab Sample ID: 660-28539-19
Client Matrix: Water

Date Sampled: 03/31/2009 0932
Date Received: 04/01/2009 1415

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1051
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.4		0.050	0.20
Manganese	0.057		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/08/2009 1056
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.95		0.050	0.20
Manganese, Dissolved	0.056		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Method Blank - Batch: 660-77186

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77186/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0856
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77186

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77186/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0900
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.09	109	75 - 125	
Iron, Dissolved	1.00	1.09	109	75 - 125	
Manganese	1.00	1.10	110	75 - 125	
Manganese, Dissolved	1.00	1.10	110	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77186

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28539-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0914
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28539-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0919
Date Prepared: 04/02/2009 1203

Analysis Batch: 660-77418
Prep Batch: 660-77186

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	110	106	75 - 125	3	20		
Iron, Dissolved	110	106	75 - 125	3	20		
Manganese	108	106	75 - 125	2	20		
Manganese, Dissolved	108	106	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77186

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28539-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0914
Date Prepared: 04/02/2009 1203

Units: mg/L

MSD Lab Sample ID: 660-28539-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0919
Date Prepared: 04/02/2009 1203

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.050	U	1.00	1.00	1.10	1.06
Iron, Dissolved	0.050	U	1.00	1.00	1.10	1.06
Manganese	0.0068		1.00	1.00	1.08	1.06
Manganese, Dissolved	0.0068		1.00	1.00	1.08	1.06

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Method Blank - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77335/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1239
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77335/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1244
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.02	102	75 - 125	
Iron, Dissolved	1.00	1.02	102	75 - 125	
Manganese	1.00	1.06	106	75 - 125	
Manganese, Dissolved	1.00	1.06	106	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28604-K-2-B MS	Analysis Batch: 660-77418	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77335	Lab File ID: 9D07B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/07/2009 1258		Final Weight/Volume: 50 mL
Date Prepared:	04/06/2009 1339		

MSD Lab Sample ID:	660-28604-K-2-C MSD	Analysis Batch: 660-77418	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77335	Lab File ID: 9D07B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/07/2009 1302		Final Weight/Volume: 50 mL
Date Prepared:	04/06/2009 1339		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	102	104	75 - 125	1	20		
Iron, Dissolved	102	104	75 - 125	1	20		
Manganese	106	108	75 - 125	1	20		
Manganese, Dissolved	106	108	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28604-K-2-B MS	Units: mg/L	MSD Lab Sample ID: 660-28604-K-2-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/07/2009 1258		Date Analyzed: 04/07/2009 1302
Date Prepared:	04/06/2009 1339		Date Prepared: 04/06/2009 1339

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.17	I	1.00	1.00	1.20	1.21
Iron, Dissolved	0.17	I	1.00	1.00	1.20	1.21
Manganese	0.015		1.00	1.00	1.08	1.09
Manganese, Dissolved	0.015		1.00	1.00	1.08	1.09

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Method Blank - Batch: 660-77377

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77377/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 0847
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77377

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77377/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 0851
Date Prepared: 04/07/2009 0727

Analysis Batch: 660-77477
Prep Batch: 660-77377
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D08B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.07	107	75 - 125	
Iron, Dissolved	1.00	1.07	107	75 - 125	
Manganese	1.00	1.08	108	75 - 125	
Manganese, Dissolved	1.00	1.08	108	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28539-1
Sdg Number: 660-28539

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77377

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28611-D-6-B MS	Analysis Batch: 660-77477	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77377	Lab File ID: 9D08B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/08/2009 0905		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 0727		

MSD Lab Sample ID:	660-28611-D-6-C MSD	Analysis Batch: 660-77477	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77377	Lab File ID: 9D08B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/08/2009 0910		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 0727		

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	47	88	75 - 125	9	20	J3	
Iron, Dissolved	47	88	75 - 125	9	20	J3	
Manganese	103	106	75 - 125	3	20		
Manganese, Dissolved	103	106	75 - 125	3	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77377

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28611-D-6-B MS	Units: mg/L	MSD Lab Sample ID: 660-28611-D-6-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/08/2009 0905		Date Analyzed: 04/08/2009 0910
Date Prepared:	04/07/2009 0727		Date Prepared: 04/07/2009 0727

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Iron	4.0	1.00	1.00	4.49	J3	4.90
Iron, Dissolved	4.0	1.00	1.00	4.49	J3	4.90
Manganese	0.020	1.00	1.00	1.05		1.08
Manganese, Dissolved	0.020	1.00	1.00	1.05		1.08

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12271

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 660-28539
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP design	B003805.5.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSIS: TOTAL FE/MN (HNO3) | DISSOLVED FE/MN (HNO3) — PRESERVATIVE

PAGE 1 OF 2

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED: TOTAL FE/MN (HNO3)	DISSOLVED FE/MN (HNO3)	REMARKS
4/1/09	0905	MW-163	G	X				1	1	
3/31/09	1515	MW-62						1	1	
	1415	MW-92						1	1	
	1505	MW-93						1	1	
	1110	MW-155						1	1	
	0942	MW-20						1	1	
	1555	MW-135						1	1	
	1052	MW-120						1	1	
	0930	MW-117						1	1	
	1400	MW-183						1	1	
	1452	MW-184						1	1	
	1315	MW-189	↓	↓				1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4-1-09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09		Amanda Hamson	4-1-09	1415

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
CM 4-1-09	4-1-09	1415	YES ○ NO ○		660-28539	2.1°C, 2.3°C, 2.0°C	CM-09

Page 39 of 42

R625-EDC-001214-0

TAL8240-660 (1207)

Serial Number 12270

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

660-28539

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP design	B0038055.0020.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: TOTAL Fe/Mn (HNO3)	REQUIRED ANALYSIS: DISSOLVED Fe/Mn (HNO3)	REMARKS
3/31/09	1318	MW-168	G	X				1	1	
	1340	MW-188						1	1	
	1002	MW-118						1	1	
	1354	MW-167						1	1	
↓	1524	MW-185	↓	↓				1	1	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1302		4-1-09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-1-09	1300	Amanda Harrison	4-1-09	1415

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ○ NO ○		660-28539	21°; 23°; 20.0°C CH-07	

TAL8240-660 (1207)

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28539 Logged in TALS By : Amanda Hannon

Cooler Received on (date) 4-1-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.1, 2.3, & 2.0 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 38

All containers pH < 2 ? Yes If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: _____

All containers pH between 6 and 8? _____ If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? _____

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28539-1
SDG Number: 660-28539

Login Number: 28539
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1, 2.3, and 2.0 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	rec'd 2 samples not on COC MW-15D and MW-115
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

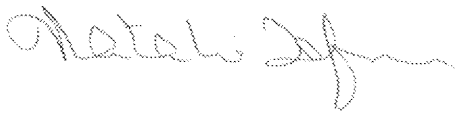
Job Number: 660-28573-1

SDG Number: 660-28573

Job Description: Tallevast - RAP design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/16/2009 10:40 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/16/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

Sample MW-101 dissolved was received at pH 7. The sample was lab preserved to pH <2.

6010B
The matrix spike duplicate (MSD) recovery for batch 660-77383 was outside of the control limit for Fe. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28573-1	**MW-178**					
Dissolved						
Manganese, Dissolved		0.075		0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.075		0.0040	mg/L	6010B
660-28573-2	**MW-116**					
Dissolved						
Iron, Dissolved		0.17	I	0.20	mg/L	6010B
Manganese, Dissolved		0.015		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.32		0.20	mg/L	6010B
Manganese		0.018		0.0040	mg/L	6010B
660-28573-3	**MW-90**					
Dissolved						
Iron, Dissolved		2.9	J3	0.20	mg/L	6010B
Manganese, Dissolved		0.059		0.0040	mg/L	6010B
Total Recoverable						
Iron		3.0		0.20	mg/L	6010B
Manganese		0.066		0.0040	mg/L	6010B
660-28573-4	**MW-66**					
Dissolved						
Iron, Dissolved		2.8		0.20	mg/L	6010B
Manganese, Dissolved		0.012		0.0040	mg/L	6010B
Total Recoverable						
Iron		2.9		0.20	mg/L	6010B
Manganese		0.011		0.0040	mg/L	6010B
660-28573-5	**MW-16S**					
Dissolved						
Iron, Dissolved		2.1		0.20	mg/L	6010B
Manganese, Dissolved		0.0041		0.0040	mg/L	6010B
Total Recoverable						
Iron		1.9		0.20	mg/L	6010B
Manganese		0.0038	I	0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28573-6	**MW-16D**				
Dissolved					
Iron, Dissolved		15	0.20	mg/L	6010B
Manganese, Dissolved		0.012	0.0040	mg/L	6010B
Total Recoverable					
Iron		16	0.20	mg/L	6010B
Manganese		0.014	0.0040	mg/L	6010B
660-28573-7	**MW-89**				
Dissolved					
Iron, Dissolved		3.0	0.20	mg/L	6010B
Manganese, Dissolved		0.052	0.0040	mg/L	6010B
Total Recoverable					
Iron		3.6	0.20	mg/L	6010B
Manganese		0.061	0.0040	mg/L	6010B
660-28573-8	**MW-230**				
Dissolved					
Iron, Dissolved		0.28	0.20	mg/L	6010B
Manganese, Dissolved		0.013	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.46	0.20	mg/L	6010B
Manganese		0.018	0.0040	mg/L	6010B
660-28573-9	**MW-65**				
Dissolved					
Iron, Dissolved		0.34	0.20	mg/L	6010B
Manganese, Dissolved		0.027	0.0040	mg/L	6010B
Total Recoverable					
Iron		6.0	0.20	mg/L	6010B
Manganese		0.051	0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28573-10	**MW-55**					
Dissolved						
Iron, Dissolved		0.26		0.20	mg/L	6010B
Manganese, Dissolved		0.012		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.59		0.20	mg/L	6010B
Manganese		0.018		0.0040	mg/L	6010B
660-28573-11	**MW-106**					
Dissolved						
Iron, Dissolved		2.9		0.20	mg/L	6010B
Manganese, Dissolved		0.040		0.0040	mg/L	6010B
Total Recoverable						
Iron		3.5		0.20	mg/L	6010B
Manganese		0.044		0.0040	mg/L	6010B
660-28573-12	**MW-232**					
Total Recoverable						
Iron		0.083	I	0.20	mg/L	6010B
Manganese		0.0011	I	0.0040	mg/L	6010B
660-28573-13	**MW-229**					
Dissolved						
Iron, Dissolved		2.5		0.20	mg/L	6010B
Manganese, Dissolved		0.13		0.0040	mg/L	6010B
Total Recoverable						
Iron		4.7		0.20	mg/L	6010B
Manganese		0.12		0.0040	mg/L	6010B
660-28573-14	**MW-79**					
Dissolved						
Iron, Dissolved		4.7		0.20	mg/L	6010B
Manganese, Dissolved		0.082		0.0040	mg/L	6010B
Total Recoverable						
Iron		4.9		0.20	mg/L	6010B
Manganese		0.088		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28573-15	**MW-231**					
Dissolved						
Manganese, Dissolved		0.0013	I	0.0040	mg/L	6010B
Total Recoverable						
Iron		0.11	I	0.20	mg/L	6010B
Manganese		0.0016	I	0.0040	mg/L	6010B
660-28573-16	**MW-17D**					
Dissolved						
Iron, Dissolved		0.49		0.20	mg/L	6010B
Manganese, Dissolved		0.0019	I	0.0040	mg/L	6010B
Total Recoverable						
Iron		1.3		0.20	mg/L	6010B
Manganese		0.0023	I	0.0040	mg/L	6010B
660-28573-17	**MW-24**					
Dissolved						
Iron, Dissolved		22		0.20	mg/L	6010B
Manganese, Dissolved		0.066		0.0040	mg/L	6010B
Total Recoverable						
Iron		21		0.20	mg/L	6010B
Manganese		0.064		0.0040	mg/L	6010B
660-28573-18	**MW-101**					
Dissolved						
Manganese, Dissolved		0.0075		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.11	I	0.20	mg/L	6010B
Manganese		0.0094		0.0040	mg/L	6010B
660-28573-19	**MW-209**					
Dissolved						
Iron, Dissolved		0.093	I	0.20	mg/L	6010B
Manganese, Dissolved		0.0073		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.13	I	0.20	mg/L	6010B
Manganese		0.0068		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28573-20	**MW-208**					
Dissolved						
Iron, Dissolved		0.052	I	0.20	mg/L	6010B
Manganese, Dissolved		0.0081		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.059	I	0.20	mg/L	6010B
Manganese		0.0081		0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28573-1	MW-178	Water	04/01/2009 1230	04/02/2009 1410
660-28573-2	MW-116	Water	04/01/2009 0950	04/02/2009 1410
660-28573-3	MW-90	Water	04/01/2009 0910	04/02/2009 1410
660-28573-3MS	MW-90 MS	Water	04/01/2009 0910	04/02/2009 1410
660-28573-3MSD	MW-90 MSD	Water	04/01/2009 0910	04/02/2009 1410
660-28573-4	MW-66	Water	04/01/2009 1005	04/02/2009 1410
660-28573-5	MW-16S	Water	04/01/2009 1445	04/02/2009 1410
660-28573-6	MW-16D	Water	04/01/2009 1445	04/02/2009 1410
660-28573-7	MW-89	Water	04/01/2009 1050	04/02/2009 1410
660-28573-8	MW-230	Water	04/01/2009 1412	04/02/2009 1410
660-28573-9	MW-65	Water	04/01/2009 1147	04/02/2009 1410
660-28573-10	MW-55	Water	04/01/2009 1303	04/02/2009 1410
660-28573-11	MW-106	Water	04/01/2009 1059	04/02/2009 1410
660-28573-12	MW-232	Water	04/01/2009 1552	04/02/2009 1410
660-28573-13	MW-229	Water	04/01/2009 1338	04/02/2009 1410
660-28573-14	MW-79	Water	04/01/2009 0902	04/02/2009 1410
660-28573-15	MW-231	Water	04/01/2009 1455	04/02/2009 1410
660-28573-16	MW-17D	Water	04/01/2009 1055	04/02/2009 1410
660-28573-17	MW-24	Water	04/01/2009 1405	04/02/2009 1410
660-28573-18	MW-101	Water	04/01/2009 1158	04/02/2009 1410
660-28573-19	MW-209	Water	04/01/2009 1040	04/02/2009 1410
660-28573-20	MW-208	Water	04/01/2009 1035	04/02/2009 1410

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-178

Lab Sample ID: 660-28573-1
Client Matrix: Water

Date Sampled: 04/01/2009 1230
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0927
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.075		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0932
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.075		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-116

Lab Sample ID: 660-28573-2
Client Matrix: Water

Date Sampled: 04/01/2009 0950
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0936
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.32		0.050	0.20
Manganese	0.018		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0941
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.17	I	0.050	0.20
Manganese, Dissolved	0.015		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-90

Lab Sample ID: 660-28573-3
Client Matrix: Water

Date Sampled: 04/01/2009 0910
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0846
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.0		0.050	0.20
Manganese	0.066		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0904
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.9	J3	0.050	0.20
Manganese, Dissolved	0.059		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-66

Lab Sample ID: 660-28573-4
Client Matrix: Water

Date Sampled: 04/01/2009 1005
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0945
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	2.9		0.050	0.20
Manganese	0.011		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0950
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.8		0.050	0.20
Manganese, Dissolved	0.012		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-16S

Lab Sample ID: 660-28573-5
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0955
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.9		0.050	0.20
Manganese	0.0038	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 0959
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.1		0.050	0.20
Manganese, Dissolved	0.0041		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-16D

Lab Sample ID: 660-28573-6
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 1004
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	16		0.050	0.20
Manganese	0.014		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/09/2009 1008
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	15		0.050	0.20
Manganese, Dissolved	0.012		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-89

Lab Sample ID: 660-28573-7
Client Matrix: Water

Date Sampled: 04/01/2009 1050
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0919
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.6		0.050	0.20
Manganese	0.061		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0924
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	3.0		0.050	0.20
Manganese, Dissolved	0.052		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-230

Lab Sample ID: 660-28573-8
Client Matrix: Water

Date Sampled: 04/01/2009 1412
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0937
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.46		0.050	0.20
Manganese	0.018		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0942
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.28		0.050	0.20
Manganese, Dissolved	0.013		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-65

Lab Sample ID: 660-28573-9
Client Matrix: Water

Date Sampled: 04/01/2009 1147
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0947
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	6.0		0.050	0.20
Manganese	0.051		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0951
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.34		0.050	0.20
Manganese, Dissolved	0.027		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-55

Lab Sample ID: 660-28573-10
Client Matrix: Water

Date Sampled: 04/01/2009 1303
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0956
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.59		0.050	0.20
Manganese	0.018		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1000
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.26		0.050	0.20
Manganese, Dissolved	0.012		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-106

Lab Sample ID: 660-28573-11
Client Matrix: Water

Date Sampled: 04/01/2009 1059
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1005
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.5		0.050	0.20
Manganese	0.044		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1010
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.9		0.050	0.20
Manganese, Dissolved	0.040		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-232

Lab Sample ID: 660-28573-12
Client Matrix: Water

Date Sampled: 04/01/2009 1552
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1014
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.083	I	0.050	0.20
Manganese	0.0011	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1019
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-229

Lab Sample ID: 660-28573-13
Client Matrix: Water

Date Sampled: 04/01/2009 1338
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1033
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	4.7		0.050	0.20
Manganese	0.12		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1037
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.5		0.050	0.20
Manganese, Dissolved	0.13		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-79

Lab Sample ID: 660-28573-14
Client Matrix: Water

Date Sampled: 04/01/2009 0902
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1042
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	4.9		0.050	0.20
Manganese	0.088		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1046
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	4.7		0.050	0.20
Manganese, Dissolved	0.082		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-231

Lab Sample ID: 660-28573-15
Client Matrix: Water

Date Sampled: 04/01/2009 1455
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1051
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.11	I	0.050	0.20
Manganese	0.0016	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1056
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0013	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-17D

Lab Sample ID: 660-28573-16
Client Matrix: Water

Date Sampled: 04/01/2009 1055
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0856
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	1.3		0.050	0.20
Manganese	0.0023	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 0914
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.49		0.050	0.20
Manganese, Dissolved	0.0019	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-24

Lab Sample ID: 660-28573-17
Client Matrix: Water

Date Sampled: 04/01/2009 1405
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1225
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	21		0.050	0.20
Manganese	0.064		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1230
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	22		0.050	0.20
Manganese, Dissolved	0.066		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-101

Lab Sample ID: 660-28573-18
Client Matrix: Water

Date Sampled: 04/01/2009 1158
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1234
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.11	I	0.050	0.20
Manganese	0.0094		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1239
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0075		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-209

Lab Sample ID: 660-28573-19
Client Matrix: Water

Date Sampled: 04/01/2009 1040
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1244
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.13	I	0.050	0.20
Manganese	0.0068		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1248
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.093	I	0.050	0.20
Manganese, Dissolved	0.0073		0.0010	0.0040

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Client Sample ID: MW-208

Lab Sample ID: 660-28573-20
Client Matrix: Water

Date Sampled: 04/01/2009 1035
Date Received: 04/02/2009 1410

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1253
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.059	I	0.050	0.20
Manganese	0.0081		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1257
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.052	I	0.050	0.20
Manganese, Dissolved	0.0081		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Lab Section	Qualifier	Description
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Method Blank - Batch: 660-77383

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77383/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 0832
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77383

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77383/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 0836
Date Prepared: 04/07/2009 0906

Analysis Batch: 660-77546
Prep Batch: 660-77383
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D09B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	0.981	98	75 - 125	
Iron, Dissolved	1.00	0.981	98	75 - 125	
Manganese	1.00	1.02	102	75 - 125	
Manganese, Dissolved	1.00	1.02	102	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77383

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28573-3	Analysis Batch: 660-77546	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77383	Lab File ID: 9D09B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/09/2009 0850		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 0906		

MSD Lab Sample ID:	660-28573-3	Analysis Batch: 660-77546	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77383	Lab File ID: 9D09B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/09/2009 0855		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 0906		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	115	105	75 - 125	2	20		
Manganese	104	101	75 - 125	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77383

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	660-28573-3	Analysis Batch: 660-77546	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77383	Lab File ID: 9D09B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/09/2009 0909		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 0906		

MSD Lab Sample ID:	660-28573-3	Analysis Batch: 660-77546	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77383	Lab File ID: 9D09B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/09/2009 0913		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 0906		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron, Dissolved	113	68	75 - 125	12	20		J3
Manganese, Dissolved	100	99	75 - 125	0	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77383

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28573-3 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 0850
Date Prepared: 04/07/2009 0906

MSD Lab Sample ID: 660-28573-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 0855
Date Prepared: 04/07/2009 0906

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	3.0	1.00	1.00	4.11	4.01
Manganese	0.066	1.00	1.00	1.10	1.07

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77383

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID: 660-28573-3 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 0909
Date Prepared: 04/07/2009 0906

MSD Lab Sample ID: 660-28573-3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 0913
Date Prepared: 04/07/2009 0906

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Iron, Dissolved	2.9	1.00	1.00	4.00	3.55	J3
Manganese, Dissolved	0.059	1.00	1.00	1.05	1.05	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Method Blank - Batch: 660-77388

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77388/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0842
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77388

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77388/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0847
Date Prepared: 04/07/2009 1018

Analysis Batch: 660-77600
Prep Batch: 660-77388
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	0.967	97	75 - 125	
Iron, Dissolved	1.00	0.967	97	75 - 125	
Manganese	1.00	1.01	101	75 - 125	
Manganese, Dissolved	1.00	1.01	101	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77388

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28573-16	Analysis Batch: 660-77600	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77388	Lab File ID: 9D10B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/10/2009 0901		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 1018		

MSD Lab Sample ID:	660-28573-16	Analysis Batch: 660-77600	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77388	Lab File ID: 9D10B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/10/2009 0905		Final Weight/Volume: 50 mL
Date Prepared:	04/07/2009 1018		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	102	94	75 - 125	4	20		
Iron, Dissolved	102	94	75 - 125	4	20		
Manganese	103	102	75 - 125	1	20		
Manganese, Dissolved	103	102	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77388

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28573-16	Units: mg/L	MSD Lab Sample ID: 660-28573-16
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/10/2009 0901		Date Analyzed: 04/10/2009 0905
Date Prepared:	04/07/2009 1018		Date Prepared: 04/07/2009 1018

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	1.3		1.00	1.00	2.29	2.21
Iron, Dissolved	1.3		1.00	1.00	2.29	2.21
Manganese	0.0023	I	1.00	1.00	1.04	1.02
Manganese, Dissolved	0.0023	I	1.00	1.00	1.04	1.02

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Method Blank - Batch: 660-77437

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77437/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 1121
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77437

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77437/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 1125
Date Prepared: 04/08/2009 0805

Analysis Batch: 660-77600
Prep Batch: 660-77437
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D10B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	0.976	98	75 - 125	
Iron, Dissolved	1.00	0.976	98	75 - 125	
Manganese	1.00	1.02	102	75 - 125	
Manganese, Dissolved	1.00	1.02	102	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28573-1
Sdg Number: 660-28573

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77437

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28610-A-1-B MS	Analysis Batch: 660-77600	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77437	Lab File ID: 9D10B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/10/2009 1139		Final Weight/Volume: 50 mL
Date Prepared:	04/08/2009 0805		

MSD Lab Sample ID:	660-28610-A-1-C MSD	Analysis Batch: 660-77600	Instrument ID: TJA ICP
Client Matrix:	Water	Prep Batch: 660-77437	Lab File ID: 9D10B
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	04/10/2009 1144		Final Weight/Volume: 50 mL
Date Prepared:	04/08/2009 0805		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	100	97	75 - 125	3	20		
Iron, Dissolved	100	97	75 - 125	3	20		
Manganese	102	102	75 - 125	0	20		
Manganese, Dissolved	102	102	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77437

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	660-28610-A-1-B MS	Units: mg/L	MSD Lab Sample ID: 660-28610-A-1-C MS
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	04/10/2009 1139		Date Analyzed: 04/10/2009 1144
Date Prepared:	04/08/2009 0805		Date Prepared: 04/08/2009 0805

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.050	U	1.00	1.00	0.999	0.965
Iron, Dissolved	0.050	U	1.00	1.00	0.999	0.965
Manganese	0.0058		1.00	1.00	1.02	1.02
Manganese, Dissolved	0.0058		1.00	1.00	1.02	1.02

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12269

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28573
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk Dr #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: TOTAL Fe/Mn	REQUIRED ANALYSIS: DISSOLVED Fe/Mn	PRESERVATIVE: HNO3	PRESERVATIVE: HNO3	REMARKS
4/1/09	1230	MW-178	G	X				1	1			
	0950	MW-116						1	1			
	0910	MW-90						1	1			
	0910	MW-90 MS						1	1			
	0910	MW-90 MSD						1	1			
	1005	MW-66						1	1			
	1445	MW-16S						1	1			
	1445	MW-16D						1	1			
MD		~~DUP-10~~						1	1			
	1050	MW-89						1	1			
	1412	MW-230						1	1			
	1147	MW-65						1	1			

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4-2-09	1410
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-2-09	1140	Amanda Harrison	4-2-09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	4-2-09	1410	YES ○ NO ○		6060-28573	5.0°, 3.0°, & 5.5°C	CLIENT

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12268

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast- RAP design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk Dr. #1000, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: TOTAL Fe/Mn (HNO3)	DISSOLVED Fe/Mn (HNO3)	REMARKS
4/1/09	1303	MW-55	G	X				1	1	
	1059	MW-106						1	1	
	1552	MW-232						1	1	
	1338	MW-229						1	1	
	0902	MW-79						1	1	
	1455	MW-231						1	1	
	1055	MW-17D						1	1	
	1405	MW-24						1	1	
	1158	MW-101						1	1	
	1046	MW-209						1	1	
↓	1035	MW-208	↓	↓				1	1	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4-2-09	1410
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-2-09	1140	Amanda Hanson	4-2-09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	4-2-09	1410	YES ○ NO ○		6660-28573	5.0°, 3.0°, 3 5.5°C CH-07	

Page 42 of 44

R625-EDC-001214-0

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28573 Logged in TALS By Amanda Harrison

Cooler Received on (date) 4-2-09 And Opened By (full name): Neal Suban

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 5.0, 3.0, & 5.5 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 44

   All containers pH < 2 ? N/O If not please comment below:

   MW-101 (dissolved) ph=7

7. Number of NaOH (sodium hydroxide) preserved containers: _____

   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: _____

   All containers pH between 6 and 8? _____ If not please comment below:

9. Was chlorine present in any of the unpreserved containers? _____

   If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28573-1
SDG Number: 660-28573

Login Number: 28573
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0, 3.0, and 5.5 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

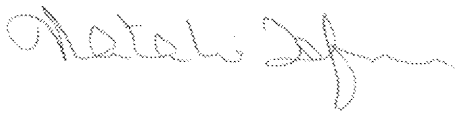
ANALYTICAL REPORT

Job Number: 660-28601-1

Job Description: Tallevast Rap Design

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/16/2009 2:42 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/16/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Tampa E84282

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS Job Number: 660-28601-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28601-1	**MW-7S**					
Total Recoverable						
Iron		0.051	I	0.20	mg/L	6010B
660-28601-2	**MW-7D**					
Dissolved						
Iron, Dissolved		0.25		0.20	mg/L	6010B
Manganese, Dissolved		0.0017	I	0.0040	mg/L	6010B
Total Recoverable						
Iron		0.50		0.20	mg/L	6010B
Manganese		0.0010	I	0.0040	mg/L	6010B
660-28601-3	**MMW-3**					
Dissolved						
Manganese, Dissolved		0.0011	I	0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0011	I	0.0040	mg/L	6010B
660-28601-4	**MW-233**					
Dissolved						
Manganese, Dissolved		0.013		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.065	I	0.20	mg/L	6010B
Manganese		0.015		0.0040	mg/L	6010B
660-28601-5	**MW-122**					
Dissolved						
Manganese, Dissolved		0.0059		0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0059		0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS Job Number: 660-28601-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-28601-6	**MW-78**				
Dissolved					
Iron, Dissolved		21	0.20	mg/L	6010B
Manganese, Dissolved		0.14	0.0040	mg/L	6010B
Total Recoverable					
Iron		21	0.20	mg/L	6010B
Manganese		0.14	0.0040	mg/L	6010B
660-28601-7	**MW-9S**				
Dissolved					
Iron, Dissolved		0.57	0.20	mg/L	6010B
Manganese, Dissolved		0.013	0.0040	mg/L	6010B
Total Recoverable					
Iron		0.76	0.20	mg/L	6010B
Manganese		0.014	0.0040	mg/L	6010B
660-28601-8	**MW-9D**				
Dissolved					
Iron, Dissolved		0.67	0.20	mg/L	6010B
Manganese, Dissolved		0.0045	0.0040	mg/L	6010B
Total Recoverable					
Iron		2.2	0.20	mg/L	6010B
Manganese		0.0047	0.0040	mg/L	6010B
660-28601-9	**MW-25**				
Dissolved					
Iron, Dissolved		22	0.20	mg/L	6010B
Manganese, Dissolved		0.12	0.0040	mg/L	6010B
Total Recoverable					
Iron		22	0.20	mg/L	6010B
Manganese		0.13	0.0040	mg/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS Job Number: 660-28601-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-28601-10	**MW-5**					
Dissolved						
Manganese, Dissolved		0.0052		0.0040	mg/L	6010B
Total Recoverable						
Iron		0.053	I	0.20	mg/L	6010B
Manganese		0.0052		0.0040	mg/L	6010B
660-28601-11	**MW-6**					
Dissolved						
Manganese, Dissolved		0.0028	I	0.0040	mg/L	6010B
Total Recoverable						
Manganese		0.0030	I	0.0040	mg/L	6010B
660-28601-12	**MW11**					
Dissolved						
Iron, Dissolved		2.9		0.20	mg/L	6010B
Manganese, Dissolved		0.015		0.0040	mg/L	6010B
Total Recoverable						
Iron		3.0		0.20	mg/L	6010B
Manganese		0.016		0.0040	mg/L	6010B
660-28601-14	**MW-84**					
Dissolved						
Iron, Dissolved		5.6		0.20	mg/L	6010B
Manganese, Dissolved		0.12		0.0040	mg/L	6010B
Total Recoverable						
Iron		5.8		0.20	mg/L	6010B
Manganese		0.12		0.0040	mg/L	6010B

METHOD SUMMARY

Client: ARCADIS Job Number: 660-28601-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Metals (ICP)	TAL TAM	SW846 6010B	
Sample Filtration, Field	TAL TAM		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAM		SW846 3005A

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28601-1

Method	Analyst	Analyst ID
SW846 6010B	Fox, Greg	GF

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28601-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28601-1	MW-7S	Water	04/01/2009 1655	04/02/2009 1845
660-28601-2	MW-7D	Water	04/01/2009 1640	04/02/2009 1845
660-28601-3	MMW-3	Water	04/02/2009 1215	04/02/2009 1845
660-28601-4	MW-233	Water	04/02/2009 1015	04/02/2009 1845
660-28601-5	MW-122	Water	04/02/2009 1017	04/02/2009 1845
660-28601-6	MW-78	Water	04/02/2009 0924	04/02/2009 1845
660-28601-7	MW-9S	Water	04/02/2009 0938	04/02/2009 1845
660-28601-8	MW-9D	Water	04/02/2009 0857	04/02/2009 1845
660-28601-9	MW-25	Water	04/02/2009 1107	04/02/2009 1845
660-28601-10	MW-5	Water	04/02/2009 1346	04/02/2009 1845
660-28601-11	MW-6	Water	04/02/2009 1454	04/02/2009 1845
660-28601-12	MW11	Water	04/02/2009 1445	04/02/2009 1845
660-28601-14	MW-84	Water	04/02/2009 1609	04/02/2009 1845

SAMPLE RESULTS

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-7S

Lab Sample ID: 660-28601-1
Client Matrix: Water

Date Sampled: 04/01/2009 1655
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1100
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.051	I	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1106
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-7D

Lab Sample ID: 660-28601-2
Client Matrix: Water

Date Sampled: 04/01/2009 1640
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1111
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.50		0.050	0.20
Manganese	0.0010	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1117
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.25		0.050	0.20
Manganese, Dissolved	0.0017	I	0.0010	0.0040

Client: ARCADIS

Job Number: 660-28601-1

Client Sample ID: MMW-3

Lab Sample ID: 660-28601-3
Client Matrix: Water

Date Sampled: 04/02/2009 1215
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1135
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0011	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1140
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0011	I	0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-233

Lab Sample ID: 660-28601-4
Client Matrix: Water

Date Sampled: 04/02/2009 1015
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1146
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.065	I	0.050	0.20
Manganese	0.015		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1152
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.013		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-122

Lab Sample ID: 660-28601-5
Client Matrix: Water

Date Sampled: 04/02/2009 1017
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1158
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0059		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/10/2009 1204
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0059		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-78

Lab Sample ID: 660-28601-6 Date Sampled: 04/02/2009 0924
Client Matrix: Water Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B Analysis Batch: 660-77418 Instrument ID: TJA ICP
Preparation: 3005A Prep Batch: 660-77335 Lab File ID: 9D07B
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/07/2009 1321 Final Weight/Volume: 50 mL
Date Prepared: 04/06/2009 1339

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	21		0.050	0.20
Manganese	0.14		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B Analysis Batch: 660-77418 Instrument ID: TJA ICP
Preparation: 3005A Prep Batch: 660-77335 Lab File ID: 9D07B
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/07/2009 1334 Final Weight/Volume: 50 mL
Date Prepared: 04/06/2009 1339

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	21		0.050	0.20
Manganese, Dissolved	0.14		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-9S

Lab Sample ID: 660-28601-7
Client Matrix: Water

Date Sampled: 04/02/2009 0938
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1339
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.76		0.050	0.20
Manganese	0.014		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1344
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.57		0.050	0.20
Manganese, Dissolved	0.013		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-9D

Lab Sample ID: 660-28601-8 Date Sampled: 04/02/2009 0857
Client Matrix: Water Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B Analysis Batch: 660-77418 Instrument ID: TJA ICP
Preparation: 3005A Prep Batch: 660-77335 Lab File ID: 9D07B
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/07/2009 1348 Final Weight/Volume: 50 mL
Date Prepared: 04/06/2009 1339

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	2.2		0.050	0.20
Manganese	0.0047		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B Analysis Batch: 660-77418 Instrument ID: TJA ICP
Preparation: 3005A Prep Batch: 660-77335 Lab File ID: 9D07B
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/07/2009 1353 Final Weight/Volume: 50 mL
Date Prepared: 04/06/2009 1339

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.67		0.050	0.20
Manganese, Dissolved	0.0045		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-25

Lab Sample ID: 660-28601-9 Date Sampled: 04/02/2009 1107
Client Matrix: Water Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B Analysis Batch: 660-77418 Instrument ID: TJA ICP
Preparation: 3005A Prep Batch: 660-77335 Lab File ID: 9D07B
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/07/2009 1357 Final Weight/Volume: 50 mL
Date Prepared: 04/06/2009 1339

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	22		0.050	0.20
Manganese	0.13		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B Analysis Batch: 660-77418 Instrument ID: TJA ICP
Preparation: 3005A Prep Batch: 660-77335 Lab File ID: 9D07B
Dilution: 1.0 Initial Weight/Volume: 50 mL
Date Analyzed: 04/07/2009 1402 Final Weight/Volume: 50 mL
Date Prepared: 04/06/2009 1339

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	22		0.050	0.20
Manganese, Dissolved	0.12		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-5

Lab Sample ID: 660-28601-10
Client Matrix: Water

Date Sampled: 04/02/2009 1346
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1407
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.053	I	0.050	0.20
Manganese	0.0052		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1411
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0052		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-6

Lab Sample ID: 660-28601-11
Client Matrix: Water

Date Sampled: 04/02/2009 1454
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1416
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.050	U	0.050	0.20
Manganese	0.0030	I	0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1430
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.050	U	0.050	0.20
Manganese, Dissolved	0.0028	I	0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW11

Lab Sample ID: 660-28601-12
Client Matrix: Water

Date Sampled: 04/02/2009 1445
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1435
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.0		0.050	0.20
Manganese	0.016		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1440
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.9		0.050	0.20
Manganese, Dissolved	0.015		0.0010	0.0040

Client: ARCADIS Job Number: 660-28601-1

Client Sample ID: MW-84

Lab Sample ID: 660-28601-14
Client Matrix: Water

Date Sampled: 04/02/2009 1609
Date Received: 04/02/2009 1845

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1444
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	5.8		0.050	0.20
Manganese	0.12		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/07/2009 1449
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	5.6		0.050	0.20
Manganese, Dissolved	0.12		0.0010	0.0040

DATA REPORTING QUALIFIERS

Client: ARCADIS Job Number: 660-28601-1

Lab Section	Qualifier	Description
Metals		
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28601-1

Method Blank - Batch: 660-77291

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77291/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0916
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77291

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77291/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0921
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291
Units: mg/L

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.02	102	75 - 125	
Iron, Dissolved	1.00	1.02	102	75 - 125	
Manganese	1.00	1.02	102	75 - 125	
Manganese, Dissolved	1.00	1.02	102	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28601-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77291

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28600-A-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0939
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28600-A-1-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0945
Date Prepared: 04/06/2009 0844

Analysis Batch: 660-77603
Prep Batch: 660-77291

Instrument ID: TJA ICP TRACE
Lab File ID: 9D10A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	101	103	75 - 125	2	20		
Iron, Dissolved	101	103	75 - 125	2	20		
Manganese	101	103	75 - 125	2	20		
Manganese, Dissolved	101	103	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77291

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28600-A-1-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0939
Date Prepared: 04/06/2009 0844

Units: mg/L

MSD Lab Sample ID: 660-28600-A-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/10/2009 0945
Date Prepared: 04/06/2009 0844

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.075	I	1.00	1.00	1.09	1.11
Iron, Dissolved	0.075	I	1.00	1.00	1.09	1.11
Manganese	0.0052		1.00	1.00	1.02	1.04
Manganese, Dissolved	0.0052		1.00	1.00	1.02	1.04

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS Job Number: 660-28601-1

Method Blank - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 660-77335/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1239
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Iron	0.050	U	0.050	0.20
Iron, Dissolved	0.050	U	0.050	0.20
Manganese	0.0010	U	0.0010	0.0040
Manganese, Dissolved	0.0010	U	0.0010	0.0040

Lab Control Spike - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 660-77335/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1244
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335
Units: mg/L

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Iron	1.00	1.02	102	75 - 125	
Iron, Dissolved	1.00	1.02	102	75 - 125	
Manganese	1.00	1.06	106	75 - 125	
Manganese, Dissolved	1.00	1.06	106	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28601-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28604-K-2-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1258
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-28604-K-2-C MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1302
Date Prepared: 04/06/2009 1339

Analysis Batch: 660-77418
Prep Batch: 660-77335

Instrument ID: TJA ICP
Lab File ID: 9D07B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Iron	102	104	75 - 125	1	20		
Iron, Dissolved	102	104	75 - 125	1	20		
Manganese	106	108	75 - 125	1	20		
Manganese, Dissolved	106	108	75 - 125	1	20		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 660-77335

Method: 6010B
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-28604-K-2-B MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1258
Date Prepared: 04/06/2009 1339

Units: mg/L

MSD Lab Sample ID: 660-28604-K-2-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1302
Date Prepared: 04/06/2009 1339

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Iron	0.17	I	1.00	1.00	1.20	1.21
Iron, Dissolved	0.17	I	1.00	1.00	1.20	1.21
Manganese	0.015		1.00	1.00	1.08	1.09
Manganese, Dissolved	0.015		1.00	1.00	1.08	1.09

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 12266

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28601

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP design	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ⊘
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: TOTAL FE/MN (HNO3 PRESERVATIVE)	REQUIRED ANALYSIS: DISSOLVED FE/MN (HNO3 PRESERVATIVE)	NUMBER OF CONTAINERS SUBMITTED		REMARKS
4/1/09	1655	MW-7S	G	X				1	1			
4/1/09	1640	MW-7D						1	1			
4/2/09	1215	MW-3						1	1			
	1015	MW-233						1	1			
	1017	MW-122						1	1			
	0924	MW-78						1	1			
	0938	MW-9S						1	1			
	0857	MW-9D						1	1			
	1107	MW-25						1	1			
	1346	MW-5						1	1			
	1454	MW-6						1	1			
↓	1445	MW-11	↓	↓				1	1			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845	YES ○ NO ○		660-28601	2.7 °C	CW-07

Page 29 of 32

R625-EDC-001214-0

TAL 8240-660 (1207)

Serial Number 12267

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Blended Water

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049
28601

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - RAP DESIGN	B0038055-0020-00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ⊘
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: Total Fe/Mn, HNO3	REQUIRED ANALYSIS: Dissolved Fe/Mn, HNO3	REMARKS
4/2/09	1609	MW-84	G	X				1	1	

NUMBER OF CONTAINERS SUBMITTED

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845	YES ○ NO ○		660-28601	2.7°C	cu-07

TAL8240-660 (1207)

Page 30 of 32

R625-EDC-001214-0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28601 Logged in TALS By : Carol McNulty

Cooler Received on (date) Cu 4-3-09 4-02-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL (WALK-IN) COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.7°C Cu-07 *Degrees Celsius*

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 26

All containers pH < 2 ? Yes If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: _____

All containers pH between 6 and 8? _____ If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? _____

If yes, which samples? _____

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28601-1

Login Number: 28601
List Source: TestAmerica Tampa
Creator: Volz, Charles
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Received @ 2.7 Degrees C. CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

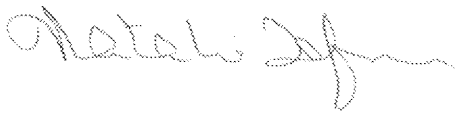
Job Number: 660-28260-1

SDG Number: 660-28260

Job Description: Tallevast Soil Gas Parameters

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/9/2009 4:53 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/09/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28260-1	MW-42A	Water	03/18/2009 1900	03/19/2009 1115
660-28260-2	MW-128A	Water	03/18/2009 1900	03/19/2009 1115

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Client Sample ID: MW-42A

Lab Sample ID: 660-28260-1
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1703
Date Prepared: 03/25/2009 1703

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0051.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	101	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	101	75 - 120

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Client Sample ID: MW-128A

Lab Sample ID: 660-28260-2
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1725
Date Prepared: 03/25/2009 1725

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0052.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	103	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	101	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28260-1	MW-42A	101	93	101
660-28260-2	MW-128A	103	93	101
MB 680-133584/8		99	95	103
LCS 680-133584/1		99	95	103
LCSD 680-133584/2		99	94	105

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Method Blank - Batch: 680-133584

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-133584/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1319
Date Prepared: 03/25/2009 1319

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq080.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	95	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-133584

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-133584/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1349
Date Prepared: 03/25/2009 1349

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0038.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-133584/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1546
Date Prepared: 03/25/2009 1546

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	121	107	50 - 150	12	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	99	99	75 - 121
4-Bromofluorobenzene	95	94	75 - 120
Toluene-d8 (Surr)	103	105	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28260-1
Sdg Number: 660-28260

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-133584

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-133584/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1349
Date Prepared: 03/25/2009 1349

Units: ug/L

LCSD Lab Sample ID: LCSD 680-133584/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1546
Date Prepared: 03/25/2009 1546

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	60.3	53.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project Number: 660-02752

TestAmerica Denver Lot #: D9C200298

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc

Dee Kettula
for **DiLea Griego**
Project Manager

April 3, 2009

Case Narrative
Lot D9C200298

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt

Six samples were received under chain of custody on March 21, 2009. The samples were received in good condition at a temperature of 1.8°C.

GC/MS Volatiles – Method 8260B

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, samples MW-42A (660-28260-1) and MW-128A (660-28260-2) had to be analyzed at a dilution. The reporting limits have been adjusted relative to the dilutions required.

Methylene chloride, a common laboratory contaminant, is present in the method blank associated with QC batch 9085232. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

The MS/MSD associated with QC batch 9085232 exhibited spike compound recoveries outside the QC control limits for 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene, and Vinyl acetate. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were observed.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

EXECUTIVE SUMMARY - Detection Highlights

D9C200298

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-42A(660-28260-1) 03/18/09 19:00 001				
Acetone	130 J	200	ug/L	SW846 8260B
1,1-Dichloroethane	33	20	ug/L	SW846 8260B
cis-1,2-Dichloroethene	28	20	ug/L	SW846 8260B
1,1-Dichloroethene	49	20	ug/L	SW846 8260B
Methylene chloride	14 J,B	100	ug/L	SW846 8260B
Tetrachloroethene	12 J	20	ug/L	SW846 8260B
Trichloroethene	870	20	ug/L	SW846 8260B
Trichlorotrifluoroethane	510	60	ug/L	SW846 8260B
MW-128A(660-28260-2) 03/18/09 19:00 002				
Acetone	1200	67	ug/L	SW846 8260B
1,1-Dichloroethane	21	6.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.9 J	6.7	ug/L	SW846 8260B
1,1-Dichloroethene	43	6.7	ug/L	SW846 8260B
Methylene chloride	3.2 J,B	33	ug/L	SW846 8260B
Tetrachloroethene	2.2 J	6.7	ug/L	SW846 8260B
Trichloroethene	30	6.7	ug/L	SW846 8260B

METHODS SUMMARY

D9C200298

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9C200298

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8260B	Hayley E. Waterland	005423

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9C200298

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K8W6X	001	MW-42A(660-28260-1)	03/18/09	19:00
K8W65	002	MW-128A(660-28260-2)	03/18/09	19:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9C200298

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		9085232	9089200
002	WATER	SW846 8260B		9085232	9089200

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9C200298

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: 001-002

Batch: 9085232

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-42A(660-28260-1)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-001
Matrix:	WATER	**Lab WorkOrder:**	K8W6X1AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:10
Sample Aliquot:	1 mL	**Instrument ID:**	R1
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	3.4	3.4	20	U
71-55-6	1,1,1-Trichloroethane	3.2	3.2	20	U
79-34-5	1,1,2,2-Tetrachloroethane	4.0	4.0	20	U
79-00-5	1,1,2-Trichloroethane	6.4	6.4	20	U
75-34-3	1,1-Dichloroethane	**33**	3.2	20	
75-35-4	1,1-Dichloroethene	**49**	2.8	20	
563-58-6	1,1-Dichloropropene	3.0	3.0	20	U
87-61-6	1,2,3-Trichlorobenzene	3.6	3.6	20	U
96-18-4	1,2,3-Trichloropropane	15	15	50	U
120-82-1	1,2,4-Trichlorobenzene	6.4	6.4	20	U
95-63-6	1,2,4-Trimethylbenzene	2.8	2.8	20	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	30	30	100	U
106-93-4	1,2-Dibromoethane (EDB)	3.6	3.6	20	U
95-50-1	1,2-Dichlorobenzene	2.6	2.6	20	U
107-06-2	1,2-Dichloroethane	2.6	2.6	20	U
78-87-5	1,2-Dichloropropane	2.6	2.6	20	U
108-67-8	1,3,5-Trimethylbenzene	2.8	2.8	20	U
541-73-1	1,3-Dichlorobenzene	3.2	3.2	20	U
142-28-9	1,3-Dichloropropane	3.0	3.0	20	U
106-46-7	1,4-Dichlorobenzene	3.2	3.2	20	U
594-20-7	2,2-Dichloropropane	4.0	4.0	100	U
78-93-3	2-Butanone (MEK)	37	37	120	U
95-49-8	2-Chlorotoluene	3.4	3.4	20	U
591-78-6	2-Hexanone	28	28	100	U
106-43-4	4-Chlorotoluene	3.4	3.4	20	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-42A(660-28260-1)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-001
Matrix:	WATER	**Lab WorkOrder:**	K8W6X1AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:10
Sample Aliquot:	1 mL	**Instrument ID:**	R1
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	3.4	3.4	20	U
108-10-1	4-Methyl-2-pentanone	21	21	100	U
67-64-1	Acetone	**130**	38	200	J
75-05-8	Acetonitrile	190	190	600	U
107-02-8	Acrolein	56	56	400	U
107-13-1	Acrylonitrile	28	28	400	U
107-05-1	Allyl chloride	3.4	3.4	40	U
71-43-2	Benzene	3.2	3.2	20	U
108-86-1	Bromobenzene	3.4	3.4	20	U
74-97-5	Bromochloromethane	2.0	2.0	20	U
75-27-4	Bromodichloromethane	3.4	3.4	20	U
75-25-2	Bromoform	3.8	3.8	20	U
74-83-9	Bromomethane	4.2	4.2	40	U
75-15-0	Carbon disulfide	9.0	9.0	40	U
56-23-5	Carbon tetrachloride	3.8	3.8	20	U
108-90-7	Chlorobenzene	3.4	3.4	20	U
124-48-1	Chlorodibromomethane	3.4	3.4	20	U
75-00-3	Chloroethane	8.2	8.2	40	U
67-66-3	Chloroform	3.2	3.2	20	U
74-87-3	Chloromethane	6.0	6.0	40	U
156-59-2	cis-1,2-Dichloroethene	**28**	3.0	20	
10061-01-5	cis-1,3-Dichloropropene	3.2	3.2	20	U
74-95-3	Dibromomethane	3.4	3.4	20	U
75-71-8	Dichlorodifluoromethane	6.2	6.2	40	U
64-17-5	Ethanol	1900	1900	6000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-42A(660-28260-1)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-001
Matrix:	WATER	**Lab WorkOrder:**	K8W6X1AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:10
Sample Aliquot:	1 mL	**Instrument ID:**	R1
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	24	24	100	U
100-41-4	Ethylbenzene	3.2	3.2	20	U
87-68-3	Hexachlorobutadiene	2.4	2.4	20	U
67-63-0	Isopropanol	260	260	800	U
98-82-8	Isopropylbenzene	3.8	3.8	20	U
80-62-6	Methyl methacrylate	22	22	80	U
1634-04-4	Methyl tert-butyl ether	5.0	5.0	100	U
75-09-2	Methylene chloride	**14**	6.4	100	J B
136777-61-2	m-Xylene & p-Xylene	6.8	6.8	40	U
91-20-3	Naphthalene	4.4	4.4	20	U
104-51-8	n-Butylbenzene	2.8	2.8	20	U
103-65-1	n-Propylbenzene	3.2	3.2	20	U
95-47-6	o-Xylene	3.8	3.8	20	U
135-98-8	sec-Butylbenzene	3.4	3.4	20	U
100-42-5	Styrene	3.4	3.4	20	U
75-65-0	tert-Butyl alcohol	76	76	1000	U
98-06-6	tert-Butylbenzene	3.2	3.2	20	U
127-18-4	Tetrachloroethene	**12**	4.0	20	J
109-99-9	Tetrahydrofuran	41	41	140	U
108-88-3	Toluene	3.4	3.4	20	U
156-60-5	trans-1,2-Dichloroethene	3.0	3.0	20	U
10061-02-6	trans-1,3-Dichloropropene	3.8	3.8	60	U
79-01-6	Trichloroethene	**870**	3.2	20	
75-69-4	Trichlorofluoromethane	5.8	5.8	40	U
76-13-1	Trichlorotrifluoroethane	**510**	16	60	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-42A(660-28260-1)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-001
Matrix:	WATER	**Lab WorkOrder:**	K8W6X1AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:10
Sample Aliquot:	1 mL	**Instrument ID:**	RI
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	19	19	60	U
75-01-4	Vinyl chloride	8.0	8.0	20	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	98	70	127	
2037-26-5	Toluene-d8	101	80	125	
1868-53-7	Dibromofluoromethane	99	77	119	
460-00-4	4-Bromofluorobenzene	108	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-128A(660-28260-2)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-002
Matrix:	WATER	**Lab WorkOrder:**	K8W651AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:58
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.1	1.1	6.7	U
71-55-6	1,1,1-Trichloroethane	1.1	1.1	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	1.3	6.7	U
79-00-5	1,1,2-Trichloroethane	2.1	2.1	6.7	U
75-34-3	1,1-Dichloroethane	**21**	1.1	6.7	
75-35-4	1,1-Dichloroethene	**43**	0.93	6.7	
563-58-6	1,1-Dichloropropene	1.0	1.0	6.7	U
87-61-6	1,2,3-Trichlorobenzene	1.2	1.2	6.7	U
96-18-4	1,2,3-Trichloropropane	5.1	5.1	17	U
120-82-1	1,2,4-Trichlorobenzene	2.1	2.1	6.7	U
95-63-6	1,2,4-Trimethylbenzene	0.93	0.93	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	10	10	33	U
106-93-4	1,2-Dibromoethane (EDB)	1.2	1.2	6.7	U
95-50-1	1,2-Dichlorobenzene	0.87	0.87	6.7	U
107-06-2	1,2-Dichloroethane	0.87	0.87	6.7	U
78-87-5	1,2-Dichloropropane	0.87	0.87	6.7	U
108-67-8	1,3,5-Trimethylbenzene	0.93	0.93	6.7	U
541-73-1	1,3-Dichlorobenzene	1.1	1.1	6.7	U
142-28-9	1,3-Dichloropropane	1.0	1.0	6.7	U
106-46-7	1,4-Dichlorobenzene	1.1	1.1	6.7	U
594-20-7	2,2-Dichloropropane	1.3	1.3	33	U
78-93-3	2-Butanone (MEK)	12	12	40	U
95-49-8	2-Chlorotoluene	1.1	1.1	6.7	U
591-78-6	2-Hexanone	9.3	9.3	33	U
106-43-4	4-Chlorotoluene	1.1	1.1	6.7	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-128A(660-28260-2)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-002
Matrix:	WATER	**Lab WorkOrder:**	K8W651AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:58
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	1.1	1.1	6.7	U
108-10-1	4-Methyl-2-pentanone	6.9	6.9	33	U
67-64-1	Acetone	**1200**	13	67	
75-05-8	Acetonitrile	64	64	200	U
107-02-8	Acrolein	19	19	130	U
107-13-1	Acrylonitrile	9.3	9.3	130	U
107-05-1	Allyl chloride	1.1	1.1	13	U
71-43-2	Benzene	1.1	1.1	6.7	U
108-86-1	Bromobenzene	1.1	1.1	6.7	U
74-97-5	Bromochloromethane	0.67	0.67	6.7	U
75-27-4	Bromodichloromethane	1.1	1.1	6.7	U
75-25-2	Bromoform	1.3	1.3	6.7	U
74-83-9	Bromomethane	1.4	1.4	13	U
75-15-0	Carbon disulfide	3.0	3.0	13	U
56-23-5	Carbon tetrachloride	1.3	1.3	6.7	U
108-90-7	Chlorobenzene	1.1	1.1	6.7	U
124-48-1	Chlorodibromomethane	1.1	1.1	6.7	U
75-00-3	Chloroethane	2.7	2.7	13	U
67-66-3	Chloroform	1.1	1.1	6.7	U
74-87-3	Chloromethane	2.0	2.0	13	U
156-59-2	cis-1,2-Dichloroethene	**1.9**	1.0	6.7	J
10061-01-5	cis-1,3-Dichloropropene	1.1	1.1	6.7	U
74-95-3	Dibromomethane	1.1	1.1	6.7	U
75-71-8	Dichlorodifluoromethane	2.1	2.1	13	U
64-17-5	Ethanol	630	630	2000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-128A(660-28260-2)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-002
Matrix:	WATER	**Lab WorkOrder:**	K8W651AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:58
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	8.0	8.0	33	U
100-41-4	Ethylbenzene	1.1	1.1	6.7	U
87-68-3	Hexachlorobutadiene	0.80	0.80	6.7	U
67-63-0	Isopropanol	87	87	270	U
98-82-8	Isopropylbenzene	1.3	1.3	6.7	U
80-62-6	Methyl methacrylate	7.4	7.4	27	U
1634-04-4	Methyl tert-butyl ether	1.7	1.7	33	U
75-09-2	Methylene chloride	**3.2**	2.1	33	J B
136777-61-2	m-Xylene & p-Xylene	2.3	2.3	13	U
91-20-3	Naphthalene	1.5	1.5	6.7	U
104-51-8	n-Butylbenzene	0.93	0.93	6.7	U
103-65-1	n-Propylbenzene	1.1	1.1	6.7	U
95-47-6	o-Xylene	1.3	1.3	6.7	U
135-98-8	sec-Butylbenzene	1.1	1.1	6.7	U
100-42-5	Styrene	1.1	1.1	6.7	U
75-65-0	tert-Butyl alcohol	25	25	330	U
98-06-6	tert-Butylbenzene	1.1	1.1	6.7	U
127-18-4	Tetrachloroethene	**2.2**	1.3	6.7	J
109-99-9	Tetrahydrofuran	14	14	47	U
108-88-3	Toluene	1.1	1.1	6.7	U
156-60-5	trans-1,2-Dichloroethene	1.0	1.0	6.7	U
10061-02-6	trans-1,3-Dichloropropene	1.3	1.3	20	U
79-01-6	Trichloroethene	**30**	1.1	6.7	
75-69-4	Trichlorofluoromethane	1.9	1.9	13	U
76-13-1	Trichlorotrifluoroethane	5.3	5.3	20	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-128A(660-28260-2)
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C200298-002
Matrix:	WATER	**Lab WorkOrder:**	K8W651AA
% Moisture:	N/A	**Date/Time Collected:**	03/18/09 19:00
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:58
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	6.3	6.3	20	U
75-01-4	Vinyl chloride	2.7	2.7	6.7	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	113	77	119	
460-00-4	4-Bromofluorobenzene	102	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab WorkOrder:**	K9A391AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:40
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	**1.6**	0.32	5.0	J
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab WorkOrder:**	K9A391AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:40
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.81	0.81	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab WorkOrder:**	K9A391AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:40
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
2037-26-5	Toluene-d8	101	80	125	
1868-53-7	Dibromofluoromethane	110	77	119	
460-00-4	4-Bromofluorobenzene	102	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25R19H

Lot/SDG Number: D9C200298 **QC Batch ID:** 9085232

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
MW-128A(660-28260-2)	K8W651AA	101	102	113	100					0
MW-42A(660-28260-1)	K8W6X1AA	98	108	99	101					0
INTRA-LAB BLANK	K9A391AA	99	102	110	101					0
CHECK SAMPLE	K9A391AC	102	102	108	95					0
LAB MS/MSD MS	K9AR61AC	99	105	105	97					0
LAB MS/MSD MSD	K9AR61AD	99	104	103	97					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C260000-232C
Matrix:	WATER	**Lab WorkOrder:**	K9A391AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:21
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.03	81		72 - 120
Acetone	10.0	11.9	119		48 - 130
Ethylbenzene	5.00	4.92	98		78 - 120
Trichlorofluoromethane	5.00	6.62	132		63 - 135
Hexachlorobutadiene	5.00	5.71	114		73 - 123
2-Hexanone	10.0	7.76	78		57 - 121
Isopropylbenzene	5.00	4.64	93		71 - 120
4-Isopropyltoluene	5.00	4.81	96		76 - 120
Methylene chloride	5.00	5.58	112		71 - 120
4-Methyl-2-pentanone	10.0	8.32	83		65 - 120
Naphthalene	5.00	3.74	75		62 - 121
Benzene	5.00	4.80	96		77 - 120
2-Pentanone	10.0	7.20	72		42 - 120
n-Propylbenzene	5.00	4.75	95		76 - 120
Styrene	5.00	4.54	91		77 - 120
1,1,1,2-Tetrachloroethane	5.00	4.89	98		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.34	87		73 - 120
Tetrachloroethene	5.00	4.99	100		77 - 120
Toluene	5.00	4.50	90		73 - 120
1,2,3-Trichlorobenzene	5.00	4.88	98		66 - 123
1,2,4-Trichlorobenzene	5.00	4.46	89		73 - 121
1,1,1-Trichloroethane	5.00	5.58	112		78 - 120
1,1,2-Trichloroethane	5.00	4.22	84		76 - 120
Trichloroethene	5.00	5.04	101		78 - 122
1,2,3-Trichloropropane	5.00	3.92	78		72 - 120
1,2,4-Trimethylbenzene	5.00	5.19	104		77 - 120
1,3,5-Trimethylbenzene	5.00	4.95	99		77 - 120
Vinyl acetate	5.00	5.69	114		63 - 124
Vinyl chloride	5.00	5.16	103		49 - 136

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C260000-232C
Matrix:	WATER	**Lab WorkOrder:**	K9A391AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:21
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	4.91	98		77 - 120
Xylenes (total)	15.0	15.1	101		77 - 120
Methyl tert-butyl ether	10.0	8.76	88		58 - 120
m-Xylene & p-Xylene	10.0	10.2	102		78 - 120
Bromobenzene	5.00	4.79	96		75 - 120
Bromochloromethane	5.00	4.82	96		78 - 120
Bromodichloromethane	5.00	5.04	101		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.21	84		65 - 120
1,2-Dibromoethane (EDB)	5.00	4.18	84		77 - 120
2-Butanone (MEK)	10.0	7.71	77		57 - 120
Bromoform	5.00	4.17	83		74 - 121
Bromomethane	5.00	5.15	103		42 - 154
n-Butylbenzene	5.00	4.82	96		76 - 120
sec-Butylbenzene	5.00	4.44	89		80 - 120
tert-Butylbenzene	5.00	4.45	89		76 - 120
Carbon disulfide	5.00	3.25	65		56 - 120
Carbon tetrachloride	5.00	5.52	110		80 - 120
Chlorobenzene	5.00	4.78	96		78 - 120
Chlorodibromomethane	5.00	4.50	90		76 - 120
Chloroethane	5.00	5.56	111		51 - 133
2-Chloroethyl vinyl ether	5.00	2.81	56		17 - 150
Chloroform	5.00	5.04	101		78 - 120
Chloromethane	5.00	4.97	99		46 - 142
2-Chlorotoluene	5.00	4.90	98		76 - 120
4-Chlorotoluene	5.00	4.92	98		78 - 120
Dibromomethane	5.00	4.72	94		77 - 120
1,2-Dichlorobenzene	5.00	4.79	96		76 - 120
1,3-Dichlorobenzene	5.00	4.94	99		75 - 120
1,4-Dichlorobenzene	5.00	4.87	97		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C260000-232C
Matrix:	WATER	**Lab WorkOrder:**	K9A391AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:21
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	6.34	127		56 - 140
1,1-Dichloroethane	5.00	4.97	99		77 - 120
1,2-Dichloroethane	5.00	4.93	99		74 - 120
1,1-Dichloroethene	5.00	4.92	98		68 - 133
cis-1,2-Dichloroethene	5.00	4.66	93		75 - 120
trans-1,2-Dichloroethene	5.00	5.09	102		80 - 120
1,2-Dichloroethene (total)	10.0	9.75	98		78 - 120
1,2-Dichloropropane	5.00	4.42	88		76 - 120
1,3-Dichloropropane	5.00	3.94	79		75 - 120
2,2-Dichloropropane	5.00	5.54	111		72 - 128
1,1-Dichloropropene	5.00	4.56	91		75 - 120
cis-1,3-Dichloropropene	5.00	3.78	76		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	70	127	
2037-26-5	Toluene-d8	95	80	125	
1868-53-7	Dibromofluoromethane	108	77	119	
460-00-4	4-Bromofluorobenzene	102	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C200298	**MS Lab Sample ID:**	D9A020114-068S
Matrix:	WATER	**MS Lab WorkOrder:**	K9AR61AC
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:32
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.94		99		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	5.06		101		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.52		90		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.42		88		76 - 120
1,1-Dichloroethane	5.00	0.16	U	4.82		96		77 - 120
1,1-Dichloroethene	5.00	0.14	U	4.61		92		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.21		84		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.70		94		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	3.89		78		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.23		85		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	4.91		98		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	0.81	U	3.99		80		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.15		83		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.72		94		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.87		97		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	9.16		92		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.36		87		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	4.72		94		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.80		96		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.11		82		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.70		94		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.07		101		72 - 128
2-Butanone (MEK)	10.0	1.8	U	7.24		72		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	17 - 150
2-Chlorotoluene	5.00	0.17	U	4.72		94		76 - 120
2-Hexanone	10.0	1.4	U	7.56		76		57 - 121
2-Pentanone	10.0	0.82	U	8.66		87		42 - 120
4-Chlorotoluene	5.00	0.17	U	4.67		93		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.42		88		76 - 120
4-Methyl-2-pentanone	10.0	1.0	U	8.38		84		65 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C200298	**MS Lab Sample ID:**	D9A020114-068S
Matrix:	WATER	**MS Lab WorkOrder:**	K9AR61AC
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:32
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Acetone	10.0	1.9	U	10.7		107		48 - 130
Benzene	5.00	0.16	U	4.57		91		77 - 120
Bromobenzene	5.00	0.17	U	4.69		94		75 - 120
Bromochloromethane	5.00	0.10	U	4.73		95		78 - 120
Bromodichloromethane	5.00	0.17	U	4.97		99		78 - 120
Bromoform	5.00	0.19	U	4.17		83		74 - 121
Bromomethane	5.00	0.21	U	4.46		89		42 - 154
Carbon disulfide	5.00	0.45	U	4.32		86		56 - 120
Carbon tetrachloride	5.00	0.19	U	5.12		102		80 - 120
Chlorobenzene	5.00	0.17	U	4.74		95		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.60		92		76 - 120
Chloroethane	5.00	0.41	U	5.04		101		51 - 133
Chloroform	5.00	0.16	U	4.88		98		78 - 120
Chloromethane	5.00	0.30	U	4.73		95		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.41		88		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	3.53		71	a	76 - 120
Dibromomethane	5.00	0.17	U	4.63		93		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	5.48		110		56 - 140
Ethylbenzene	5.00	0.16	U	4.82		96		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.19		104		73 - 123
Isopropylbenzene	5.00	0.19	U	4.32		86		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	9.87		99		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	8.56		86		58 - 120
Methylene chloride	5.00	0.33	J B	4.58		85		71 - 120
n-Butylbenzene	5.00	0.14	U	4.40		88		76 - 120
n-Propylbenzene	5.00	0.16	U	4.44		89		76 - 120
Naphthalene	5.00	0.22	U	3.76		75		62 - 121
o-Xylene	5.00	0.19	U	4.75		95		77 - 120
sec-Butylbenzene	5.00	0.17	U	4.21		84		80 - 120
Styrene	5.00	0.17	U	4.37		87		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C200298	**MS Lab Sample ID:**	D9A020114-068S
Matrix:	WATER	**MS Lab WorkOrder:**	K9AR61AC
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:32
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
tert-Butylbenzene	5.00	0.16	U	4.17		83		76 - 120
Tetrachloroethene	5.00	0.20	U	4.83		97		77 - 120
Toluene	5.00	0.17	U	4.39		88		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.75		95		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.24		85		72 - 120
Trichloroethene	5.00	0.16	U	4.69		94		78 - 122
Trichlorofluoromethane	5.00	0.29	U	6.04		121		63 - 135
Vinyl acetate	5.00	0.94	U	7.32		146	a	63 - 124
Vinyl chloride	5.00	0.40	U	4.88		98		49 - 136
Xylenes (total)	15.0	0.19	U	14.6		98		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
460-00-4	4-Bromofluorobenzene	105	78	118	
1868-53-7	Dibromofluoromethane	105	77	119	
2037-26-5	Toluene-d8	97	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C200298	**MSD Lab Sample ID:**	D9A020114-068D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9AR61AD
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.88		98		1.2		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	5.31		106		4.8		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.45		89		1.5		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.30		86		2.7		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	4.86		97		0.75		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.96		99		7.4		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.52		90		7.1		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	4.48		90		4.7		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	3.93		79		0.87		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	4.06		81		4.0		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	5.08		102		3.4		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	0.81	U	3.61		72		9.9		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.26		85		2.5		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.73		95		0.28		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.79		96		1.6		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	9.43		94		3.0		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.40		88		0.94		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	4.85		97		2.7		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.87		97		1.4		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.12		82		0.25		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.74		95		0.78		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	5.26		105		3.7		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	7.96		80		9.5		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	0.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	4.88		98		3.4		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C200298	**MSD Lab Sample ID:**	D9A020114-068D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9AR61AD
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	7.98		80		5.4		57 - 121	25
2-Pentanone	10.0	0.82	U	9.00		90		3.8		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.83		97		3.3		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	4.63		93		4.7		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	8.38		84		0.030		65 - 120	22
Acetone	10.0	1.9	U	11.1		111		4.0		48 - 130	41
Benzene	5.00	0.16	U	4.66		93		1.8		77 - 120	20
Bromobenzene	5.00	0.17	U	4.74		95		1.1		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.71		94		0.57		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.90		98		1.4		78 - 120	20
Bromoform	5.00	0.19	U	4.16		83		0.12		74 - 121	21
Bromomethane	5.00	0.21	U	4.26		85		4.6		42 - 154	24
Carbon disulfide	5.00	0.45	U	4.25		85		1.6		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	5.45		109		6.1		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.74		95		0.090		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.64		93		0.80		76 - 120	20
Chloroethane	5.00	0.41	U	4.67		93		7.7		51 - 133	25
Chloroform	5.00	0.16	U	4.91		98		0.48		78 - 120	20
Chloromethane	5.00	0.30	U	4.40		88		7.3		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.49		90		1.9		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	3.65		73	a	3.3		76 - 120	20
Dibromomethane	5.00	0.17	U	4.70		94		1.7		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	5.02		100		8.8		56 - 140	24
Ethylbenzene	5.00	0.16	U	4.88		98		1.2		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	5.16		103		0.52		73 - 123	25

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C200298	**MSD Lab Sample ID:**	D9A020114-068D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9AR61AD
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	4.57		91		5.5		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	10.1		101		2.5		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	8.75		87		2.1		58 - 120	21
Methylene chloride	5.00	0.33	J B	4.47		83		2.4		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.60		92		4.5		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.62		92		4.0		76 - 120	20
Naphthalene	5.00	0.22	U	3.63		73		3.6		62 - 121	32
o-Xylene	5.00	0.19	U	4.90		98		3.0		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	4.36		87		3.5		80 - 120	21
Styrene	5.00	0.17	U	4.49		90		2.7		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	4.34		87		4.1		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.99		100		3.3		77 - 120	20
Toluene	5.00	0.17	U	4.54		91		3.4		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.94		99		3.9		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.19		84		1.1		72 - 120	20
Trichloroethene	5.00	0.16	U	4.94		99		5.2		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	5.38		108		11		63 - 135	20
Vinyl acetate	5.00	0.94	U	7.24		145	a	1.1		63 - 124	24
Vinyl chloride	5.00	0.40	U	4.64		93		5.0		49 - 136	24
Xylenes (total)	15.0	0.19	U	15.0		100		2.7		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
460-00-4	4-Bromofluorobenzene	104	78	118	
1868-53-7	Dibromofluoromethane	103	77	119	
2037-26-5	Toluene-d8	97	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	R0200.D
Lot/SDG Number:	D9C200298	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab Work Order:**	K9A391AA
Analysis Method:	8260B	**Date/Time Extracted:**	03/25/09 08:13
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	03/25/09 11:40
QC Batch ID:	9085232	**Instrument ID:**	R1

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
MW-128A(660-28260-2)	K8W651AA	R0200.D	03/25/09	16:58
MW-42A(660-28260-1)	K8W6X1AA	R0191.D	03/25/09	14:10
CHECK SAMPLE	K9A391AC C	R0182.D	03/25/09	11:21
LAB MS/MSD MS	K9AR61AC S	R0189H.D	03/25/09	13:32
LAB MS/MSD MSD	K9AR61AD D	R0190H.D	03/25/09	13:51

Serial Number 06421

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil Gas Parameter

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Savannah & Denver
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil Gas Parameter	B038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813.903.3138	813.903.3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 6 OF

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (16)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B (Savannah)	REQUIRED ANALYSIS: None Volatiles (Denver)	PRESERVATIVE: HCl	PRESERVATIVE: None	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/18/09	1900	MW-42A	G	X				3	3				
3/18/09	1900	MW-128A	G	X				3	3				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3.19.09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/19/09	1115	YES ○ NO ○		660-28260	2.6°C CL107	

660-28260

TAL8240-660 (1207)

Page 47 of 49

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28260-1
SDG Number: 660-28260

Login Number: 28260
Creator: Tafuni, Natalie
List Number: 1

List Source: TestAmerica Tampa

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.6 C CU-07
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28260-1
SDG Number: 660-28260

Login Number: 28260
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/20/09 02:51 PM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

ANALYTICAL REPORT

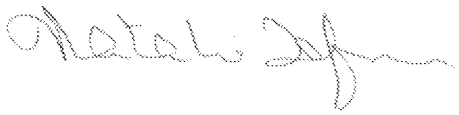
Job Number: 660-28283-1

SDG Number: 660-28283

Job Description: Tallevast - Soil Gas Parameter

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/9/2009 4:58 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/09/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): MW-254A (660-28283-6).

All other samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28283-1	MW-36A	Water	03/19/2009 1100	03/20/2009 1100
660-28283-2	MW-127A	Water	03/19/2009 1220	03/20/2009 1100
660-28283-3	MW-37A	Water	03/19/2009 1630	03/20/2009 1100
660-28283-4	MW-40A	Water	03/19/2009 1630	03/20/2009 1100
660-28283-5	EW-105A	Water	03/19/2009 1635	03/20/2009 1100
660-28283-6	MW-254A	Water	03/19/2009 1650	03/20/2009 1100

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Client Sample ID: MW-36A

Lab Sample ID: 660-28283-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1748
Date Prepared: 03/25/2009 1748

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0053.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	100	75 - 120

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Client Sample ID: MW-127A

Lab Sample ID: 660-28283-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1810
Date Prepared: 03/25/2009 1810

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0054.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	97	75 - 120

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Client Sample ID: MW-37A

Lab Sample ID: 660-28283-3
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1832
Date Prepared: 03/25/2009 1832

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0055.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	97	75 - 120

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Client Sample ID: MW-40A

Lab Sample ID: 660-28283-4
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1854
Date Prepared: 03/25/2009 1854

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0056.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	97	75 - 120

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Client Sample ID: EW-105A

Lab Sample ID: 660-28283-5
Client Matrix: Water

Date Sampled: 03/19/2009 1635
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1916
Date Prepared: 03/25/2009 1916

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0057.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	102	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	101	75 - 120

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Client Sample ID: MW-254A

Lab Sample ID: 660-28283-6
Client Matrix: Water

Date Sampled: 03/19/2009 1650
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1939
Date Prepared: 03/25/2009 1939

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0058.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	103	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	98	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28283-1	MW-36A	100	93	100
660-28283-2	MW-127A	100	91	97
660-28283-3	MW-37A	99	92	97
660-28283-4	MW-40A	100	94	97
660-28283-5	EW-105A	102	93	101
660-28283-6	MW-254A	103	93	98
MB 680-133584/8		99	95	103
LCS 680-133584/1		99	95	103
LCSD 680-133584/2		99	94	105

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Method Blank - Batch: 680-133584

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-133584/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1319
Date Prepared: 03/25/2009 1319

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq080.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	95	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-133584

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-133584/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1349
Date Prepared: 03/25/2009 1349

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0038.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-133584/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1546
Date Prepared: 03/25/2009 1546

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	121	107	50 - 150	12	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	99	99	75 - 121
4-Bromofluorobenzene	95	94	75 - 120
Toluene-d8 (Surr)	103	105	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28283-1
Sdg Number: 660-28283

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-133584

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-133584/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1349
Date Prepared: 03/25/2009 1349

Units: ug/L

LCSD Lab Sample ID: LCSD 680-133584/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1546
Date Prepared: 03/25/2009 1546

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	60.3	53.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project Number: 660-02752

TestAmerica Denver Lot #: D9C210149

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc

Dee Kettula
for **DiLea Griego**
Project Manager

April 3, 2009

Case Narrative
Lot D9C210149

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt
Six samples were received under chain of custody on March 21, 2009. The samples were received in good condition at a temperature of 0.2°C.

GC/MS Volatiles – Method 8260B
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, samples MW-36A (660-28283-1), MW-127A (660-28283-2), MW-37A (660-28283-3), MW-40A (660-28283-4), EW-105A (660-28283-5), and MW-254A (660-28283-6) had to be analyzed at a dilution. The reporting limits have been adjusted relative to the dilutions required.

Methylene chloride, a common laboratory contaminant, is present in the method blank associated with QC batch 9085232. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

The LCS associated with QC batch 9086157 exhibited the percent recovery outside the QC control limits, biased high, for Hexachlorobutadiene. This is an indicator that data may be biased high. As no detectable concentrations of Hexachlorobutadiene are present in the associated samples, corrective action is deemed unnecessary.

The MS/MSD associated with QC batch 9085232 exhibited spike compound recoveries outside the QC control limits for 2-Chloroethyl vinyl ether, cis-1,3-Dichloropropene, and Vinyl acetate. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The MS/MSD associated with QC batch 9086157 exhibited spike compound recoveries and RPD data outside the QC control limits for various compounds. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The (ICAL) Initial Calibration Verification standard associated with QC batch 9086157 exhibited the %Difference (%D) value greater than the allowed criteria, biased high and low, as noted below. As no detectable concentrations of these compounds are present in the associated samples, corrective action is deemed unnecessary.

Ethanol – low Ethyl acetate – high Carbon disulfide - low

A Continuing Calibration Verification (CCV) standard associated with samples in QC batch 9086157 exhibited the %Difference (%D) value >20%, biased high, for Ethanol. All CCC and SPCC compounds are in control; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were observed.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

EXECUTIVE SUMMARY - Detection Highlights

D9C210149

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-36A(660-28283-1) 03/19/09 11:00 001				
Acetone	29 J	67	ug/L	SW846 8260B
1,1-Dichloroethane	56	6.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	13	6.7	ug/L	SW846 8260B
1,1-Dichloroethene	170	6.7	ug/L	SW846 8260B
Methylene chloride	4.8 J,B	33	ug/L	SW846 8260B
Tetrachloroethene	3.3 J	6.7	ug/L	SW846 8260B
Trichloroethene	400	6.7	ug/L	SW846 8260B
Trichlorotrifluoroethane	18 J	20	ug/L	SW846 8260B
MW-127A(660-28283-2) 03/19/09 12:20 002				
1,1-Dichloroethane	63	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	96	50	ug/L	SW846 8260B
1,1-Dichloroethene	270	50	ug/L	SW846 8260B
Methylene chloride	47 J,B	250	ug/L	SW846 8260B
Tetrachloroethene	140	50	ug/L	SW846 8260B
Trichloroethene	2900	50	ug/L	SW846 8260B
MW-37A(660-28283-3) 03/19/09 16:30 003				
1,1-Dichloroethane	46 J	67	ug/L	SW846 8260B
cis-1,2-Dichloroethene	170	67	ug/L	SW846 8260B
1,1-Dichloroethene	140	67	ug/L	SW846 8260B
Methylene chloride	48 J,B	330	ug/L	SW846 8260B
Tetrachloroethene	260	67	ug/L	SW846 8260B
Trichloroethene	3800	67	ug/L	SW846 8260B
MW-40A(660-28283-4) 03/19/09 16:30 004				
1,1-Dichloroethane	8.3 J	13	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.9 J	13	ug/L	SW846 8260B
1,1-Dichloroethene	8.1 J	13	ug/L	SW846 8260B
Methylene chloride	9.3 J,B	67	ug/L	SW846 8260B
Tetrachloroethene	150	13	ug/L	SW846 8260B
Trichloroethene	580	13	ug/L	SW846 8260B
EW-105A(660-28283-5) 03/19/09 16:35 005				
1,1-Dichloroethane	90	4.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.2 J	4.0	ug/L	SW846 8260B
1,1-Dichloroethene	3.4 J	4.0	ug/L	SW846 8260B
Methylene chloride	2.8 J,B	20	ug/L	SW846 8260B
Tetrachloroethene	1.6 J	4.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D9C210149

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
EW-105A(660-28283-5) 03/19/09 16:35 005				
Trichloroethene	2.0 J	4.0	ug/L	SW846 8260B
MW-254A(660-28283-6) 03/19/09 16:50 006				
Tetrachloroethene	7400	200	ug/L	SW846 8260B
Trichloroethene	200	200	ug/L	SW846 8260B

METHODS SUMMARY

D9C210149

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9C210149

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8260B	Hayley E. Waterland	005423

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9C210149

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K8X4A	001	MW-36A(660-28283-1)	03/19/09	11:00
K8X4C	002	MW-127A(660-28283-2)	03/19/09	12:20
K8X4D	003	MW-37A(660-28283-3)	03/19/09	16:30
K8X4F	004	MW-40A(660-28283-4)	03/19/09	16:30
K8X4G	005	EW-105A(660-28283-5)	03/19/09	16:35
K8X4H	006	MW-254A(660-28283-6)	03/19/09	16:50

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9C210149

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		9085232	9089200
002	WATER	SW846 8260B		9085232	9089200
003	WATER	SW846 8260B		9085232	9089200
004	WATER	SW846 8260B		9085232	9089200
005	WATER	SW846 8260B		9085232	9089200
006	WATER	SW846 8260B		9086157	9086243

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9C210149

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: 001-005

Batch: 9085232

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-36A(660-28283-1)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-001
Matrix:	WATER	**Lab WorkOrder:**	K8X4A1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:00
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:47
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.1	1.1	6.7	U
71-55-6	1,1,1-Trichloroethane	1.1	1.1	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	1.3	6.7	U
79-00-5	1,1,2-Trichloroethane	2.1	2.1	6.7	U
75-34-3	1,1-Dichloroethane	**56**	1.1	6.7	
75-35-4	1,1-Dichloroethene	**170**	0.93	6.7	
563-58-6	1,1-Dichloropropene	1.0	1.0	6.7	U
87-61-6	1,2,3-Trichlorobenzene	1.2	1.2	6.7	U
96-18-4	1,2,3-Trichloropropane	5.1	5.1	17	U
120-82-1	1,2,4-Trichlorobenzene	2.1	2.1	6.7	U
95-63-6	1,2,4-Trimethylbenzene	0.93	0.93	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	10	10	33	U
106-93-4	1,2-Dibromoethane (EDB)	1.2	1.2	6.7	U
95-50-1	1,2-Dichlorobenzene	0.87	0.87	6.7	U
107-06-2	1,2-Dichloroethane	0.87	0.87	6.7	U
78-87-5	1,2-Dichloropropane	0.87	0.87	6.7	U
108-67-8	1,3,5-Trimethylbenzene	0.93	0.93	6.7	U
541-73-1	1,3-Dichlorobenzene	1.1	1.1	6.7	U
142-28-9	1,3-Dichloropropane	1.0	1.0	6.7	U
106-46-7	1,4-Dichlorobenzene	1.1	1.1	6.7	U
594-20-7	2,2-Dichloropropane	1.3	1.3	33	U
78-93-3	2-Butanone (MEK)	12	12	40	U
95-49-8	2-Chlorotoluene	1.1	1.1	6.7	U
591-78-6	2-Hexanone	9.3	9.3	33	U
106-43-4	4-Chlorotoluene	1.1	1.1	6.7	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-36A(660-28283-1)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-001
Matrix:	WATER	**Lab WorkOrder:**	K8X4A1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:00
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:47
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	1.1	1.1	6.7	U
108-10-1	4-Methyl-2-pentanone	6.9	6.9	33	U
67-64-1	Acetone	**29**	13	67	J
75-05-8	Acetonitrile	64	64	200	U
107-02-8	Acrolein	19	19	130	U
107-13-1	Acrylonitrile	9.3	9.3	130	U
107-05-1	Allyl chloride	1.1	1.1	13	U
71-43-2	Benzene	1.1	1.1	6.7	U
108-86-1	Bromobenzene	1.1	1.1	6.7	U
74-97-5	Bromochloromethane	0.67	0.67	6.7	U
75-27-4	Bromodichloromethane	1.1	1.1	6.7	U
75-25-2	Bromoform	1.3	1.3	6.7	U
74-83-9	Bromomethane	1.4	1.4	13	U
75-15-0	Carbon disulfide	3.0	3.0	13	U
56-23-5	Carbon tetrachloride	1.3	1.3	6.7	U
108-90-7	Chlorobenzene	1.1	1.1	6.7	U
124-48-1	Chlorodibromomethane	1.1	1.1	6.7	U
75-00-3	Chloroethane	2.7	2.7	13	U
67-66-3	Chloroform	1.1	1.1	6.7	U
74-87-3	Chloromethane	2.0	2.0	13	U
156-59-2	cis-1,2-Dichloroethene	**13**	1.0	6.7	
10061-01-5	cis-1,3-Dichloropropene	1.1	1.1	6.7	U
74-95-3	Dibromomethane	1.1	1.1	6.7	U
75-71-8	Dichlorodifluoromethane	2.1	2.1	13	U
64-17-5	Ethanol	630	630	2000	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-36A(660-28283-1)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-001
Matrix:	WATER	**Lab WorkOrder:**	K8X4A1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:00
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:47
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	8.0	8.0	33	U
100-41-4	Ethylbenzene	1.1	1.1	6.7	U
87-68-3	Hexachlorobutadiene	0.80	0.80	6.7	U
67-63-0	Isopropanol	87	87	270	U
98-82-8	Isopropylbenzene	1.3	1.3	6.7	U
80-62-6	Methyl methacrylate	7.4	7.4	27	U
1634-04-4	Methyl tert-butyl ether	1.7	1.7	33	U
75-09-2	Methylene chloride	**4.8**	2.1	33	J B
136777-61-2	m-Xylene & p-Xylene	2.3	2.3	13	U
91-20-3	Naphthalene	1.5	1.5	6.7	U
104-51-8	n-Butylbenzene	0.93	0.93	6.7	U
103-65-1	n-Propylbenzene	1.1	1.1	6.7	U
95-47-6	o-Xylene	1.3	1.3	6.7	U
135-98-8	sec-Butylbenzene	1.1	1.1	6.7	U
100-42-5	Styrene	1.1	1.1	6.7	U
75-65-0	tert-Butyl alcohol	25	25	330	U
98-06-6	tert-Butylbenzene	1.1	1.1	6.7	U
127-18-4	Tetrachloroethene	**3.3**	1.3	6.7	J
109-99-9	Tetrahydrofuran	14	14	47	U
108-88-3	Toluene	1.1	1.1	6.7	U
156-60-5	trans-1,2-Dichloroethene	1.0	1.0	6.7	U
10061-02-6	trans-1,3-Dichloropropene	1.3	1.3	20	U
79-01-6	Trichloroethene	**400**	1.1	6.7	
75-69-4	Trichlorofluoromethane	1.9	1.9	13	U
76-13-1	Trichlorotrifluoroethane	**18**	5.3	20	J

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-36A(660-28283-1)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-001
Matrix:	WATER	**Lab WorkOrder:**	K8X4A1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:00
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 14:47
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	6.3	6.3	20	U
75-01-4	Vinyl chloride	2.7	2.7	6.7	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	70	127	
2037-26-5	Toluene-d8	99	80	125	
1868-53-7	Dibromofluoromethane	103	77	119	
460-00-4	4-Bromofluorobenzene	103	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-127A(660-28283-2)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-002
Matrix:	WATER	**Lab WorkOrder:**	K8X4C1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 12:20
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:06
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	8.5	8.5	50	U
71-55-6	1,1,1-Trichloroethane	8.0	8.0	50	U
79-34-5	1,1,2,2-Tetrachloroethane	10	10	50	U
79-00-5	1,1,2-Trichloroethane	16	16	50	U
75-34-3	1,1-Dichloroethane	**63**	8.0	50	
75-35-4	1,1-Dichloroethene	**270**	7.0	50	
563-58-6	1,1-Dichloropropene	7.5	7.5	50	U
87-61-6	1,2,3-Trichlorobenzene	9.0	9.0	50	U
96-18-4	1,2,3-Trichloropropane	38	38	120	U
120-82-1	1,2,4-Trichlorobenzene	16	16	50	U
95-63-6	1,2,4-Trimethylbenzene	7.0	7.0	50	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	75	75	250	U
106-93-4	1,2-Dibromoethane (EDB)	9.0	9.0	50	U
95-50-1	1,2-Dichlorobenzene	6.5	6.5	50	U
107-06-2	1,2-Dichloroethane	6.5	6.5	50	U
78-87-5	1,2-Dichloropropane	6.5	6.5	50	U
108-67-8	1,3,5-Trimethylbenzene	7.0	7.0	50	U
541-73-1	1,3-Dichlorobenzene	8.0	8.0	50	U
142-28-9	1,3-Dichloropropane	7.5	7.5	50	U
106-46-7	1,4-Dichlorobenzene	8.0	8.0	50	U
594-20-7	2,2-Dichloropropane	10	10	250	U
78-93-3	2-Butanone (MEK)	92	92	300	U
95-49-8	2-Chlorotoluene	8.5	8.5	50	U
591-78-6	2-Hexanone	70	70	250	U
106-43-4	4-Chlorotoluene	8.5	8.5	50	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-127A(660-28283-2)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-002
Matrix:	WATER	**Lab WorkOrder:**	K8X4C1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 12:20
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:06
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	8.5	8.5	50	U
108-10-1	4-Methyl-2-pentanone	52	52	250	U
67-64-1	Acetone	95	95	500	U
75-05-8	Acetonitrile	480	480	1500	U
107-02-8	Acrolein	140	140	1000	U
107-13-1	Acrylonitrile	70	70	1000	U
107-05-1	Allyl chloride	8.5	8.5	100	U
71-43-2	Benzene	8.0	8.0	50	U
108-86-1	Bromobenzene	8.5	8.5	50	U
74-97-5	Bromochloromethane	5.0	5.0	50	U
75-27-4	Bromodichloromethane	8.5	8.5	50	U
75-25-2	Bromoform	9.5	9.5	50	U
74-83-9	Bromomethane	10	10	100	U
75-15-0	Carbon disulfide	22	22	100	U
56-23-5	Carbon tetrachloride	9.5	9.5	50	U
108-90-7	Chlorobenzene	8.5	8.5	50	U
124-48-1	Chlorodibromomethane	8.5	8.5	50	U
75-00-3	Chloroethane	20	20	100	U
67-66-3	Chloroform	8.0	8.0	50	U
74-87-3	Chloromethane	15	15	100	U
156-59-2	cis-1,2-Dichloroethene	**96**	7.5	50	
10061-01-5	cis-1,3-Dichloropropene	8.0	8.0	50	U
74-95-3	Dibromomethane	8.5	8.5	50	U
75-71-8	Dichlorodifluoromethane	16	16	100	U
64-17-5	Ethanol	4700	4700	15000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-127A(660-28283-2)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-002
Matrix:	WATER	**Lab WorkOrder:**	K8X4C1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 12:20
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:06
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	60	60	250	U
100-41-4	Ethylbenzene	8.0	8.0	50	U
87-68-3	Hexachlorobutadiene	6.0	6.0	50	U
67-63-0	Isopropanol	650	650	2000	U
98-82-8	Isopropylbenzene	9.5	9.5	50	U
80-62-6	Methyl methacrylate	56	56	200	U
1634-04-4	Methyl tert-butyl ether	12	12	250	U
75-09-2	Methylene chloride	47	16	250	J B
136777-61-2	m-Xylene & p-Xylene	17	17	100	U
91-20-3	Naphthalene	11	11	50	U
104-51-8	n-Butylbenzene	7.0	7.0	50	U
103-65-1	n-Propylbenzene	8.0	8.0	50	U
95-47-6	o-Xylene	9.5	9.5	50	U
135-98-8	sec-Butylbenzene	8.5	8.5	50	U
100-42-5	Styrene	8.5	8.5	50	U
75-65-0	tert-Butyl alcohol	190	190	2500	U
98-06-6	tert-Butylbenzene	8.0	8.0	50	U
127-18-4	Tetrachloroethene	**140**	10	50	
109-99-9	Tetrahydrofuran	100	100	350	U
108-88-3	Toluene	8.5	8.5	50	U
156-60-5	trans-1,2-Dichloroethene	7.5	7.5	50	U
10061-02-6	trans-1,3-Dichloropropene	9.5	9.5	150	U
79-01-6	Trichloroethene	**2900**	8.0	50	
75-69-4	Trichlorofluoromethane	14	14	100	U
76-13-1	Trichlorotrifluoroethane	40	40	150	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-127A(660-28283-2)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-002
Matrix:	WATER	**Lab WorkOrder:**	K8X4C1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 12:20
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:06
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	47	47	150	U
75-01-4	Vinyl chloride	20	20	50	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	70	127	
2037-26-5	Toluene-d8	99	80	125	
1868-53-7	Dibromofluoromethane	101	77	119	
460-00-4	4-Bromofluorobenzene	101	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-37A(660-28283-3)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-003
Matrix:	WATER	**Lab WorkOrder:**	K8X4D1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:25
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	11	11	67	U
71-55-6	1,1,1-Trichloroethane	11	11	67	U
79-34-5	1,1,2,2-Tetrachloroethane	13	13	67	U
79-00-5	1,1,2-Trichloroethane	21	21	67	U
75-34-3	1,1-Dichloroethane	**46**	11	67	J
75-35-4	1,1-Dichloroethene	**140**	9.3	67	
563-58-6	1,1-Dichloropropene	10	10	67	U
87-61-6	1,2,3-Trichlorobenzene	12	12	67	U
96-18-4	1,2,3-Trichloropropane	51	51	170	U
120-82-1	1,2,4-Trichlorobenzene	21	21	67	U
95-63-6	1,2,4-Trimethylbenzene	9.3	9.3	67	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	100	100	330	U
106-93-4	1,2-Dibromoethane (EDB)	12	12	67	U
95-50-1	1,2-Dichlorobenzene	8.7	8.7	67	U
107-06-2	1,2-Dichloroethane	8.7	8.7	67	U
78-87-5	1,2-Dichloropropane	8.7	8.7	67	U
108-67-8	1,3,5-Trimethylbenzene	9.3	9.3	67	U
541-73-1	1,3-Dichlorobenzene	11	11	67	U
142-28-9	1,3-Dichloropropane	10	10	67	U
106-46-7	1,4-Dichlorobenzene	11	11	67	U
594-20-7	2,2-Dichloropropane	13	13	330	U
78-93-3	2-Butanone (MEK)	120	120	400	U
95-49-8	2-Chlorotoluene	11	11	67	U
591-78-6	2-Hexanone	93	93	330	U
106-43-4	4-Chlorotoluene	11	11	67	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-37A(660-28283-3)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-003
Matrix:	WATER	**Lab WorkOrder:**	K8X4D1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:25
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	11	11	67	U
108-10-1	4-Methyl-2-pentanone	69	69	330	U
67-64-1	Acetone	130	130	670	U
75-05-8	Acetonitrile	640	640	2000	U
107-02-8	Acrolein	190	190	1300	U
107-13-1	Acrylonitrile	93	93	1300	U
107-05-1	Allyl chloride	11	11	130	U
71-43-2	Benzene	11	11	67	U
108-86-1	Bromobenzene	11	11	67	U
74-97-5	Bromochloromethane	6.7	6.7	67	U
75-27-4	Bromodichloromethane	11	11	67	U
75-25-2	Bromoform	13	13	67	U
74-83-9	Bromomethane	14	14	130	U
75-15-0	Carbon disulfide	30	30	130	U
56-23-5	Carbon tetrachloride	13	13	67	U
108-90-7	Chlorobenzene	11	11	67	U
124-48-1	Chlorodibromomethane	11	11	67	U
75-00-3	Chloroethane	27	27	130	U
67-66-3	Chloroform	11	11	67	U
74-87-3	Chloromethane	20	20	130	U
156-59-2	cis-1,2-Dichloroethene	**170**	10	67	
10061-01-5	cis-1,3-Dichloropropene	11	11	67	U
74-95-3	Dibromomethane	11	11	67	U
75-71-8	Dichlorodifluoromethane	21	21	130	U
64-17-5	Ethanol	6300	6300	20000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-37A(660-28283-3)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-003
Matrix:	WATER	**Lab WorkOrder:**	K8X4D1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:25
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	80	80	330	U
100-41-4	Ethylbenzene	11	11	67	U
87-68-3	Hexachlorobutadiene	8.0	8.0	67	U
67-63-0	Isopropanol	870	870	2700	U
98-82-8	Isopropylbenzene	13	13	67	U
80-62-6	Methyl methacrylate	74	74	270	U
1634-04-4	Methyl tert-butyl ether	17	17	330	U
75-09-2	Methylene chloride	**48**	21	330	J B
136777-61-2	m-Xylene & p-Xylene	23	23	130	U
91-20-3	Naphthalene	15	15	67	U
104-51-8	n-Butylbenzene	9.3	9.3	67	U
103-65-1	n-Propylbenzene	11	11	67	U
95-47-6	o-Xylene	13	13	67	U
135-98-8	sec-Butylbenzene	11	11	67	U
100-42-5	Styrene	11	11	67	U
75-65-0	tert-Butyl alcohol	250	250	3300	U
98-06-6	tert-Butylbenzene	11	11	67	U
127-18-4	Tetrachloroethene	**260**	13	67	
109-99-9	Tetrahydrofuran	140	140	470	U
108-88-3	Toluene	11	11	67	U
156-60-5	trans-1,2-Dichloroethene	10	10	67	U
10061-02-6	trans-1,3-Dichloropropene	13	13	200	U
79-01-6	Trichloroethene	**3800**	11	67	
75-69-4	Trichlorofluoromethane	19	19	130	U
76-13-1	Trichlorotrifluoroethane	53	53	200	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-37A(660-28283-3)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-003
Matrix:	WATER	**Lab WorkOrder:**	K8X4D1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:25
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	63	63	200	U
75-01-4	Vinyl chloride	27	27	67	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	105	77	119	
460-00-4	4-Bromofluorobenzene	101	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-40A(660-28283-4)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-004
Matrix:	WATER	**Lab WorkOrder:**	K8X4F1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:44
Sample Aliquot:	1.5 mL	**Instrument ID:**	R1
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	2.3	2.3	13	U
71-55-6	1,1,1-Trichloroethane	2.1	2.1	13	U
79-34-5	1,1,2,2-Tetrachloroethane	2.7	2.7	13	U
79-00-5	1,1,2-Trichloroethane	4.3	4.3	13	U
75-34-3	1,1-Dichloroethane	**8.3**	2.1	13	J
75-35-4	1,1-Dichloroethene	**8.1**	1.9	13	J
563-58-6	1,1-Dichloropropene	2.0	2.0	13	U
87-61-6	1,2,3-Trichlorobenzene	2.4	2.4	13	U
96-18-4	1,2,3-Trichloropropane	10	10	33	U
120-82-1	1,2,4-Trichlorobenzene	4.3	4.3	13	U
95-63-6	1,2,4-Trimethylbenzene	1.9	1.9	13	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	20	20	67	U
106-93-4	1,2-Dibromoethane (EDB)	2.4	2.4	13	U
95-50-1	1,2-Dichlorobenzene	1.7	1.7	13	U
107-06-2	1,2-Dichloroethane	1.7	1.7	13	U
78-87-5	1,2-Dichloropropane	1.7	1.7	13	U
108-67-8	1,3,5-Trimethylbenzene	1.9	1.9	13	U
541-73-1	1,3-Dichlorobenzene	2.1	2.1	13	U
142-28-9	1,3-Dichloropropane	2.0	2.0	13	U
106-46-7	1,4-Dichlorobenzene	2.1	2.1	13	U
594-20-7	2,2-Dichloropropane	2.7	2.7	67	U
78-93-3	2-Butanone (MEK)	24	24	80	U
95-49-8	2-Chlorotoluene	2.3	2.3	13	U
591-78-6	2-Hexanone	19	19	67	U
106-43-4	4-Chlorotoluene	2.3	2.3	13	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-40A(660-28283-4)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-004
Matrix:	WATER	**Lab WorkOrder:**	K8X4F1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:44
Sample Aliquot:	1.5 mL	**Instrument ID:**	R1
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	2.3	2.3	13	U
108-10-1	4-Methyl-2-pentanone	14	14	67	U
67-64-1	Acetone	25	25	130	U
75-05-8	Acetonitrile	130	130	400	U
107-02-8	Acrolein	37	37	270	U
107-13-1	Acrylonitrile	19	19	270	U
107-05-1	Allyl chloride	2.3	2.3	27	U
71-43-2	Benzene	2.1	2.1	13	U
108-86-1	Bromobenzene	2.3	2.3	13	U
74-97-5	Bromochloromethane	1.3	1.3	13	U
75-27-4	Bromodichloromethane	2.3	2.3	13	U
75-25-2	Bromoform	2.5	2.5	13	U
74-83-9	Bromomethane	2.8	2.8	27	U
75-15-0	Carbon disulfide	6.0	6.0	27	U
56-23-5	Carbon tetrachloride	2.5	2.5	13	U
108-90-7	Chlorobenzene	2.3	2.3	13	U
124-48-1	Chlorodibromomethane	2.3	2.3	13	U
75-00-3	Chloroethane	5.5	5.5	27	U
67-66-3	Chloroform	2.1	2.1	13	U
74-87-3	Chloromethane	4.0	4.0	27	U
156-59-2	cis-1,2-Dichloroethene	**2.9**	2.0	13	J
10061-01-5	cis-1,3-Dichloropropene	2.1	2.1	13	U
74-95-3	Dibromomethane	2.3	2.3	13	U
75-71-8	Dichlorodifluoromethane	4.1	4.1	27	U
64-17-5	Ethanol	1300	1300	4000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-40A(660-28283-4)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-004
Matrix:	WATER	**Lab WorkOrder:**	K8X4F1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:44
Sample Aliquot:	1.5 mL	**Instrument ID:**	R1
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	16	16	67	U
100-41-4	Ethylbenzene	2.1	2.1	13	U
87-68-3	Hexachlorobutadiene	1.6	1.6	13	U
67-63-0	Isopropanol	170	170	530	U
98-82-8	Isopropylbenzene	2.5	2.5	13	U
80-62-6	Methyl methacrylate	15	15	53	U
1634-04-4	Methyl tert-butyl ether	3.3	3.3	67	U
75-09-2	Methylene chloride	**9.3**	4.3	67	J B
136777-61-2	m-Xylene & p-Xylene	4.5	4.5	27	U
91-20-3	Naphthalene	2.9	2.9	13	U
104-51-8	n-Butylbenzene	1.9	1.9	13	U
103-65-1	n-Propylbenzene	2.1	2.1	13	U
95-47-6	o-Xylene	2.5	2.5	13	U
135-98-8	sec-Butylbenzene	2.3	2.3	13	U
100-42-5	Styrene	2.3	2.3	13	U
75-65-0	tert-Butyl alcohol	51	51	670	U
98-06-6	tert-Butylbenzene	2.1	2.1	13	U
127-18-4	Tetrachloroethene	**150**	2.7	13	
109-99-9	Tetrahydrofuran	27	27	93	U
108-88-3	Toluene	2.3	2.3	13	U
156-60-5	trans-1,2-Dichloroethene	2.0	2.0	13	U
10061-02-6	trans-1,3-Dichloropropene	2.5	2.5	40	U
79-01-6	Trichloroethene	**580**	2.1	13	
75-69-4	Trichlorofluoromethane	3.9	3.9	27	U
76-13-1	Trichlorotrifluoroethane	11	11	40	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-40A(660-28283-4)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-004
Matrix:	WATER	**Lab WorkOrder:**	K8X4F1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:30
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 15:44
Sample Aliquot:	1.5 mL	**Instrument ID:**	R1
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	13	13	40	U
75-01-4	Vinyl chloride	5.3	5.3	13	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	70	127	
2037-26-5	Toluene-d8	99	80	125	
1868-53-7	Dibromofluoromethane	108	77	119	
460-00-4	4-Bromofluorobenzene	98	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-105A(660-28283-5)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-005
Matrix:	WATER	**Lab WorkOrder:**	K8X4G1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:35
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:02
Sample Aliquot:	5 mL	**Instrument ID:**	R1
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.68	0.68	4.0	U
71-55-6	1,1,1-Trichloroethane	0.64	0.64	4.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.80	0.80	4.0	U
79-00-5	1,1,2-Trichloroethane	1.3	1.3	4.0	U
75-34-3	1,1-Dichloroethane	**90**	0.64	4.0	
75-35-4	1,1-Dichloroethene	**3.4**	0.56	4.0	J
563-58-6	1,1-Dichloropropene	0.60	0.60	4.0	U
87-61-6	1,2,3-Trichlorobenzene	0.72	0.72	4.0	U
96-18-4	1,2,3-Trichloropropane	3.1	3.1	10	U
120-82-1	1,2,4-Trichlorobenzene	1.3	1.3	4.0	U
95-63-6	1,2,4-Trimethylbenzene	0.56	0.56	4.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	6.0	6.0	20	U
106-93-4	1,2-Dibromoethane (EDB)	0.72	0.72	4.0	U
95-50-1	1,2-Dichlorobenzene	0.52	0.52	4.0	U
107-06-2	1,2-Dichloroethane	0.52	0.52	4.0	U
78-87-5	1,2-Dichloropropane	0.52	0.52	4.0	U
108-67-8	1,3,5-Trimethylbenzene	0.56	0.56	4.0	U
541-73-1	1,3-Dichlorobenzene	0.64	0.64	4.0	U
142-28-9	1,3-Dichloropropane	0.60	0.60	4.0	U
106-46-7	1,4-Dichlorobenzene	0.64	0.64	4.0	U
594-20-7	2,2-Dichloropropane	0.80	0.80	20	U
78-93-3	2-Butanone (MEK)	7.3	7.3	24	U
95-49-8	2-Chlorotoluene	0.68	0.68	4.0	U
591-78-6	2-Hexanone	5.6	5.6	20	U
106-43-4	4-Chlorotoluene	0.68	0.68	4.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-105A(660-28283-5)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-005
Matrix:	WATER	**Lab WorkOrder:**	K8X4G1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:35
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:02
Sample Aliquot:	5 mL	**Instrument ID:**	R1
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.68	0.68	4.0	U
108-10-1	4-Methyl-2-pentanone	4.2	4.2	20	U
67-64-1	Acetone	7.6	7.6	40	U
75-05-8	Acetonitrile	38	38	120	U
107-02-8	Acrolein	11	11	80	U
107-13-1	Acrylonitrile	5.6	5.6	80	U
107-05-1	Allyl chloride	0.68	0.68	8.0	U
71-43-2	Benzene	0.64	0.64	4.0	U
108-86-1	Bromobenzene	0.68	0.68	4.0	U
74-97-5	Bromochloromethane	0.40	0.40	4.0	U
75-27-4	Bromodichloromethane	0.68	0.68	4.0	U
75-25-2	Bromoform	0.76	0.76	4.0	U
74-83-9	Bromomethane	0.84	0.84	8.0	U
75-15-0	Carbon disulfide	1.8	1.8	8.0	U
56-23-5	Carbon tetrachloride	0.76	0.76	4.0	U
108-90-7	Chlorobenzene	0.68	0.68	4.0	U
124-48-1	Chlorodibromomethane	0.68	0.68	4.0	U
75-00-3	Chloroethane	1.6	1.6	8.0	U
67-66-3	Chloroform	0.64	0.64	4.0	U
74-87-3	Chloromethane	1.2	1.2	8.0	U
156-59-2	cis-1,2-Dichloroethene	**1.2**	0.60	4.0	J
10061-01-5	cis-1,3-Dichloropropene	0.64	0.64	4.0	U
74-95-3	Dibromomethane	0.68	0.68	4.0	U
75-71-8	Dichlorodifluoromethane	1.2	1.2	8.0	U
64-17-5	Ethanol	380	380	1200	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-105A(660-28283-5)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-005
Matrix:	WATER	**Lab WorkOrder:**	K8X4G1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:35
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:02
Sample Aliquot:	5 mL	**Instrument ID:**	R1
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	4.8	4.8	20	U
100-41-4	Ethylbenzene	0.64	0.64	4.0	U
87-68-3	Hexachlorobutadiene	0.48	0.48	4.0	U
67-63-0	Isopropanol	52	52	160	U
98-82-8	Isopropylbenzene	0.76	0.76	4.0	U
80-62-6	Methyl methacrylate	4.4	4.4	16	U
1634-04-4	Methyl tert-butyl ether	1.0	1.0	20	U
75-09-2	Methylene chloride	**2.8**	1.3	20	J B
136777-61-2	m-Xylene & p-Xylene	1.4	1.4	8.0	U
91-20-3	Naphthalene	0.88	0.88	4.0	U
104-51-8	n-Butylbenzene	0.56	0.56	4.0	U
103-65-1	n-Propylbenzene	0.64	0.64	4.0	U
95-47-6	o-Xylene	0.76	0.76	4.0	U
135-98-8	sec-Butylbenzene	0.68	0.68	4.0	U
100-42-5	Styrene	0.68	0.68	4.0	U
75-65-0	tert-Butyl alcohol	15	15	200	U
98-06-6	tert-Butylbenzene	0.64	0.64	4.0	U
127-18-4	Tetrachloroethene	**1.6**	0.80	4.0	J
109-99-9	Tetrahydrofuran	8.1	8.1	28	U
108-88-3	Toluene	0.68	0.68	4.0	U
156-60-5	trans-1,2-Dichloroethene	0.60	0.60	4.0	U
10061-02-6	trans-1,3-Dichloropropene	0.76	0.76	12	U
79-01-6	Trichloroethene	**2.0**	0.64	4.0	J
75-69-4	Trichlorofluoromethane	1.2	1.2	8.0	U
76-13-1	Trichlorotrifluoroethane	3.2	3.2	12	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-105A(660-28283-5)
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C210149-005
Matrix:	WATER	**Lab WorkOrder:**	K8X4G1AA
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 16:35
Basis:	Wet	**Date/Time Received:**	03/21/09 08:10
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 16:02
Sample Aliquot:	5 mL	**Instrument ID:**	R1
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	3.8	3.8	12	U
75-01-4	Vinyl chloride	1.6	1.6	4.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	70	127	
2037-26-5	Toluene-d8	101	80	125	
1868-53-7	Dibromofluoromethane	116	77	119	
460-00-4	4-Bromofluorobenzene	103	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab WorkOrder:**	K9A391AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:40
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	**1.6**	0.32	5.0	J
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab WorkOrder:**	K9A391AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:40
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.81	0.81	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab WorkOrder:**	K9A391AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:40
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
2037-26-5	Toluene-d8	101	80	125	
1868-53-7	Dibromofluoromethane	110	77	119	
460-00-4	4-Bromofluorobenzene	102	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25RI9H

Lot/SDG Number: D9C210149 **QC Batch ID:** 9085232

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
MW-36A(660-28283-1)	K8X4A1AA	103	103	103	99					0
MW-127A(660-28283-2)	K8X4C1AA	102	101	101	99					0
MW-37A(660-28283-3)	K8X4D1AA	103	101	105	100					0
MW-40A(660-28283-4)	K8X4F1AA	104	98	108	99					0
EW-105A(660-28283-5)	K8X4G1AA	103	103	116	101					0
INTRA-LAB BLANK	K9A391AA	99	102	110	101					0
CHECK SAMPLE	K9A391AC	102	102	108	95					0
LAB MS/MSD MS	K9AR61AC	99	105	105	97					0
LAB MS/MSD MSD	K9AR61AD	99	104	103	97					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C260000-232C
Matrix:	WATER	**Lab WorkOrder:**	K9A391AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:21
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.03	81		72 - 120
Acetone	10.0	11.9	119		48 - 130
Ethylbenzene	5.00	4.92	98		78 - 120
Trichlorofluoromethane	5.00	6.62	132		63 - 135
Hexachlorobutadiene	5.00	5.71	114		73 - 123
2-Hexanone	10.0	7.76	78		57 - 121
Isopropylbenzene	5.00	4.64	93		71 - 120
4-Isopropyltoluene	5.00	4.81	96		76 - 120
Methylene chloride	5.00	5.58	112		71 - 120
4-Methyl-2-pentanone	10.0	8.32	83		65 - 120
Naphthalene	5.00	3.74	75		62 - 121
Benzene	5.00	4.80	96		77 - 120
2-Pentanone	10.0	7.20	72		42 - 120
n-Propylbenzene	5.00	4.75	95		76 - 120
Styrene	5.00	4.54	91		77 - 120
1,1,1,2-Tetrachloroethane	5.00	4.89	98		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.34	87		73 - 120
Tetrachloroethene	5.00	4.99	100		77 - 120
Toluene	5.00	4.50	90		73 - 120
1,2,3-Trichlorobenzene	5.00	4.88	98		66 - 123
1,2,4-Trichlorobenzene	5.00	4.46	89		73 - 121
1,1,1-Trichloroethane	5.00	5.58	112		78 - 120
1,1,2-Trichloroethane	5.00	4.22	84		76 - 120
Trichloroethene	5.00	5.04	101		78 - 122
1,2,3-Trichloropropane	5.00	3.92	78		72 - 120
1,2,4-Trimethylbenzene	5.00	5.19	104		77 - 120
1,3,5-Trimethylbenzene	5.00	4.95	99		77 - 120
Vinyl acetate	5.00	5.69	114		63 - 124
Vinyl chloride	5.00	5.16	103		49 - 136

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C260000-232C
Matrix:	WATER	**Lab WorkOrder:**	K9A391AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:21
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	4.91	98		77 - 120
Xylenes (total)	15.0	15.1	101		77 - 120
Methyl tert-butyl ether	10.0	8.76	88		58 - 120
m-Xylene & p-Xylene	10.0	10.2	102		78 - 120
Bromobenzene	5.00	4.79	96		75 - 120
Bromochloromethane	5.00	4.82	96		78 - 120
Bromodichloromethane	5.00	5.04	101		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.21	84		65 - 120
1,2-Dibromoethane (EDB)	5.00	4.18	84		77 - 120
2-Butanone (MEK)	10.0	7.71	77		57 - 120
Bromoform	5.00	4.17	83		74 - 121
Bromomethane	5.00	5.15	103		42 - 154
n-Butylbenzene	5.00	4.82	96		76 - 120
sec-Butylbenzene	5.00	4.44	89		80 - 120
tert-Butylbenzene	5.00	4.45	89		76 - 120
Carbon disulfide	5.00	3.25	65		56 - 120
Carbon tetrachloride	5.00	5.52	110		80 - 120
Chlorobenzene	5.00	4.78	96		78 - 120
Chlorodibromomethane	5.00	4.50	90		76 - 120
Chloroethane	5.00	5.56	111		51 - 133
2-Chloroethyl vinyl ether	5.00	2.81	56		17 - 150
Chloroform	5.00	5.04	101		78 - 120
Chloromethane	5.00	4.97	99		46 - 142
2-Chlorotoluene	5.00	4.90	98		76 - 120
4-Chlorotoluene	5.00	4.92	98		78 - 120
Dibromomethane	5.00	4.72	94		77 - 120
1,2-Dichlorobenzene	5.00	4.79	96		76 - 120
1,3-Dichlorobenzene	5.00	4.94	99		75 - 120
1,4-Dichlorobenzene	5.00	4.87	97		77 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C260000-232C
Matrix:	WATER	**Lab WorkOrder:**	K9A391AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 11:21
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	6.34	127		56 - 140
1,1-Dichloroethane	5.00	4.97	99		77 - 120
1,2-Dichloroethane	5.00	4.93	99		74 - 120
1,1-Dichloroethene	5.00	4.92	98		68 - 133
cis-1,2-Dichloroethene	5.00	4.66	93		75 - 120
trans-1,2-Dichloroethene	5.00	5.09	102		80 - 120
1,2-Dichloroethene (total)	10.0	9.75	98		78 - 120
1,2-Dichloropropane	5.00	4.42	88		76 - 120
1,3-Dichloropropane	5.00	3.94	79		75 - 120
2,2-Dichloropropane	5.00	5.54	111		72 - 128
1,1-Dichloropropene	5.00	4.56	91		75 - 120
cis-1,3-Dichloropropene	5.00	3.78	76		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	70	127	
2037-26-5	Toluene-d8	95	80	125	
1868-53-7	Dibromofluoromethane	108	77	119	
460-00-4	4-Bromofluorobenzene	102	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C210149	**MS Lab Sample ID:**	D9A020114-068S
Matrix:	WATER	**MS Lab WorkOrder:**	K9AR61AC
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:32
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.94		99		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	5.06		101		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.52		90		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.42		88		76 - 120
1,1-Dichloroethane	5.00	0.16	U	4.82		96		77 - 120
1,1-Dichloroethene	5.00	0.14	U	4.61		92		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.21		84		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.70		94		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	3.89		78		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.23		85		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	4.91		98		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	0.81	U	3.99		80		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.15		83		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.72		94		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.87		97		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	9.16		92		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.36		87		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	4.72		94		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.80		96		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.11		82		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.70		94		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.07		101		72 - 128
2-Butanone (MEK)	10.0	1.8	U	7.24		72		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	17 - 150
2-Chlorotoluene	5.00	0.17	U	4.72		94		76 - 120
2-Hexanone	10.0	1.4	U	7.56		76		57 - 121
2-Pentanone	10.0	0.82	U	8.66		87		42 - 120
4-Chlorotoluene	5.00	0.17	U	4.67		93		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.42		88		76 - 120
4-Methyl-2-pentanone	10.0	1.0	U	8.38		84		65 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C210149	**MS Lab Sample ID:**	D9A020114-068S
Matrix:	WATER	**MS Lab WorkOrder:**	K9AR61AC
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:32
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Acetone	10.0	1.9	U	10.7		107		48 - 130
Benzene	5.00	0.16	U	4.57		91		77 - 120
Bromobenzene	5.00	0.17	U	4.69		94		75 - 120
Bromochloromethane	5.00	0.10	U	4.73		95		78 - 120
Bromodichloromethane	5.00	0.17	U	4.97		99		78 - 120
Bromoform	5.00	0.19	U	4.17		83		74 - 121
Bromomethane	5.00	0.21	U	4.46		89		42 - 154
Carbon disulfide	5.00	0.45	U	4.32		86		56 - 120
Carbon tetrachloride	5.00	0.19	U	5.12		102		80 - 120
Chlorobenzene	5.00	0.17	U	4.74		95		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.60		92		76 - 120
Chloroethane	5.00	0.41	U	5.04		101		51 - 133
Chloroform	5.00	0.16	U	4.88		98		78 - 120
Chloromethane	5.00	0.30	U	4.73		95		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.41		88		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	3.53		71	a	76 - 120
Dibromomethane	5.00	0.17	U	4.63		93		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	5.48		110		56 - 140
Ethylbenzene	5.00	0.16	U	4.82		96		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.19		104		73 - 123
Isopropylbenzene	5.00	0.19	U	4.32		86		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	9.87		99		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	8.56		86		58 - 120
Methylene chloride	5.00	0.33	J B	4.58		85		71 - 120
n-Butylbenzene	5.00	0.14	U	4.40		88		76 - 120
n-Propylbenzene	5.00	0.16	U	4.44		89		76 - 120
Naphthalene	5.00	0.22	U	3.76		75		62 - 121
o-Xylene	5.00	0.19	U	4.75		95		77 - 120
sec-Butylbenzene	5.00	0.17	U	4.21		84		80 - 120
Styrene	5.00	0.17	U	4.37		87		77 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C210149	**MS Lab Sample ID:**	D9A020114-068S
Matrix:	WATER	**MS Lab WorkOrder:**	K9AR61AC
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:32
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
tert-Butylbenzene	5.00	0.16	U	4.17		83		76 - 120
Tetrachloroethene	5.00	0.20	U	4.83		97		77 - 120
Toluene	5.00	0.17	U	4.39		88		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.75		95		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.24		85		72 - 120
Trichloroethene	5.00	0.16	U	4.69		94		78 - 122
Trichlorofluoromethane	5.00	0.29	U	6.04		121		63 - 135
Vinyl acetate	5.00	0.94	U	7.32		146	a	63 - 124
Vinyl chloride	5.00	0.40	U	4.88		98		49 - 136
Xylenes (total)	15.0	0.19	U	14.6		98		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
460-00-4	4-Bromofluorobenzene	105	78	118	
1868-53-7	Dibromofluoromethane	105	77	119	
2037-26-5	Toluene-d8	97	80	125	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C210149	**MSD Lab Sample ID:**	D9A020114-068D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9AR61AD
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.88		98		1.2		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	5.31		106		4.8		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.45		89		1.5		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.30		86		2.7		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	4.86		97		0.75		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.96		99		7.4		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.52		90		7.1		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	4.48		90		4.7		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	3.93		79		0.87		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	4.06		81		4.0		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	5.08		102		3.4		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	0.81	U	3.61		72		9.9		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.26		85		2.5		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.73		95		0.28		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.79		96		1.6		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	9.43		94		3.0		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.40		88		0.94		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	4.85		97		2.7		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.87		97		1.4		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.12		82		0.25		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.74		95		0.78		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	5.26		105		3.7		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	7.96		80		9.5		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	0.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	4.88		98		3.4		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C210149	**MSD Lab Sample ID:**	D9A020114-068D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9AR61AD
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	7.98		80		5.4		57 - 121	25
2-Pentanone	10.0	0.82	U	9.00		90		3.8		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.83		97		3.3		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	4.63		93		4.7		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	8.38		84		0.030		65 - 120	22
Acetone	10.0	1.9	U	11.1		111		4.0		48 - 130	41
Benzene	5.00	0.16	U	4.66		93		1.8		77 - 120	20
Bromobenzene	5.00	0.17	U	4.74		95		1.1		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.71		94		0.57		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.90		98		1.4		78 - 120	20
Bromoform	5.00	0.19	U	4.16		83		0.12		74 - 121	21
Bromomethane	5.00	0.21	U	4.26		85		4.6		42 - 154	24
Carbon disulfide	5.00	0.45	U	4.25		85		1.6		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	5.45		109		6.1		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.74		95		0.090		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.64		93		0.80		76 - 120	20
Chloroethane	5.00	0.41	U	4.67		93		7.7		51 - 133	25
Chloroform	5.00	0.16	U	4.91		98		0.48		78 - 120	20
Chloromethane	5.00	0.30	U	4.40		88		7.3		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.49		90		1.9		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	3.65		73	a	3.3		76 - 120	20
Dibromomethane	5.00	0.17	U	4.70		94		1.7		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	5.02		100		8.8		56 - 140	24
Ethylbenzene	5.00	0.16	U	4.88		98		1.2		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	5.16		103		0.52		73 - 123	25

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C210149	**MSD Lab Sample ID:**	D9A020114-068D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9AR61AD
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 00:30
Basis:	Wet	**Date/Time Received:**	03/20/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/25/09 08:13
QC Batch ID:	9085232	**Date/Time Analyzed:**	03/25/09 13:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	4.57		91		5.5		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	10.1		101		2.5		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	8.75		87		2.1		58 - 120	21
Methylene chloride	5.00	0.33	J B	4.47		83		2.4		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.60		92		4.5		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.62		92		4.0		76 - 120	20
Naphthalene	5.00	0.22	U	3.63		73		3.6		62 - 121	32
o-Xylene	5.00	0.19	U	4.90		98		3.0		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	4.36		87		3.5		80 - 120	21
Styrene	5.00	0.17	U	4.49		90		2.7		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	4.34		87		4.1		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.99		100		3.3		77 - 120	20
Toluene	5.00	0.17	U	4.54		91		3.4		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.94		99		3.9		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.19		84		1.1		72 - 120	20
Trichloroethene	5.00	0.16	U	4.94		99		5.2		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	5.38		108		11		63 - 135	20
Vinyl acetate	5.00	0.94	U	7.24		145	a	1.1		63 - 124	24
Vinyl chloride	5.00	0.40	U	4.64		93		5.0		49 - 136	24
Xylenes (total)	15.0	0.19	U	15.0		100		2.7		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
460-00-4	4-Bromofluorobenzene	104	78	118	
1868-53-7	Dibromofluoromethane	103	77	119	
2037-26-5	Toluene-d8	97	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	R0193.D
Lot/SDG Number:	D9C210149	**Lab Sample ID:**	D9C260000-232B
Matrix:	WATER	**Lab Work Order:**	K9A391AA
Analysis Method:	8260B	**Date/Time Extracted:**	03/25/09 08:13
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	03/25/09 11:40
QC Batch ID:	9085232	**Instrument ID:**	R1

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
MW-36A(660-28283-1)	K8X4A1AA	R0193.D	03/25/09	14:47
MW-127A(660-28283-2)	K8X4C1AA	R0194.D	03/25/09	15:06
MW-37A(660-28283-3)	K8X4D1AA	R0195.D	03/25/09	15:25
MW-40A(660-28283-4)	K8X4F1AA	R0196.D	03/25/09	15:44
EW-105A(660-28283-5)	K8X4G1AA	R0197.D	03/25/09	16:02
CHECK SAMPLE	K9A391AC C	R0182.D	03/25/09	11:21
LAB MS/MSD MS	K9AR61AC S	R0189H.D	03/25/09	13:32
LAB MS/MSD MSD	K9AR61AD D	R0190H.D	03/25/09	13:51

Serial Number 12222

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil Gas Parameter

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location: Savannah & Denver
Phone: 660-28783
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil Gas Parameter	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (12)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B (Savannah) HCl	REQUIRED ANALYSIS: Volatiles (Denver) NONE	REMARKS
3/19/09	1100	MW-36A	G	X				3	3	
	1220	MW-127A						3	3	
	1630	MW-37A						3	3	
	1630	MW-40A						3	3	
	1635	EW-105A						3	3	
	1650	MW-254A						3	3	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945		3/20/09	1100
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945	Amanda Samson	3/20/09	1100

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3209	1100	YES ○ NO ○		660-28783	2.4 C	Cu ~07

TAL8240-660 (1207)

Page 65 of 67

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28283-1
SDG Number: 660-28283

Login Number: 28283
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28283-1
SDG Number: 660-28283

Login Number: 28283
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/21/09 10:30 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

ANALYTICAL REPORT

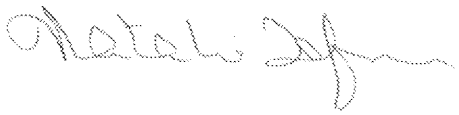
Job Number: 660-28305-1

SDG Number: 660-28305

Job Description: Tallevast-Soil Gas Parameters

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/10/2009 10:02 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/10/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28305-1	EW-103A	Water	03/20/2009 1330	03/20/2009 1900
660-28305-2	EW-108A	Water	03/20/2009 0950	03/20/2009 1900
660-28305-3	EW-109A	Water	03/20/2009 1217	03/20/2009 1900
660-28305-4	EW-110A	Water	03/20/2009 1109	03/20/2009 1900
660-28305-5	Trip Blank	Water	03/20/2009 0000	03/20/2009 1900

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Client Sample ID: EW-103A

Lab Sample ID: 660-28305-1
Client Matrix: Water

Date Sampled: 03/20/2009 1330
Date Received: 03/20/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 2001
Date Prepared: 03/25/2009 2001

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0059.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	101	75 - 120

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Client Sample ID: EW-108A

Lab Sample ID: 660-28305-2
Client Matrix: Water

Date Sampled: 03/20/2009 0950
Date Received: 03/20/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 2023
Date Prepared: 03/25/2009 2023

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0060.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	104	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	100	75 - 120

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Client Sample ID: EW-109A

Lab Sample ID: 660-28305-3
Client Matrix: Water

Date Sampled: 03/20/2009 1217
Date Received: 03/20/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 2045
Date Prepared: 03/25/2009 2045

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0061.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	101	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	100	75 - 120

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Client Sample ID: EW-110A

Lab Sample ID: 660-28305-4
Client Matrix: Water

Date Sampled: 03/20/2009 1109
Date Received: 03/20/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 2107
Date Prepared: 03/25/2009 2107

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0062.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	101	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	101	75 - 120

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28305-5
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/20/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1641
Date Prepared: 03/25/2009 1641

Analysis Batch: 680-133584

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0050.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	102	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	101	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28305-1	EW-103A	100	94	101
660-28305-2	EW-108A	104	92	100
660-28305-3	EW-109A	101	92	100
660-28305-4	EW-110A	101	92	101
660-28305-5	Trip Blank	102	93	101
MB 680-133584/8		99	95	103
LCS 680-133584/1		99	95	103
LCSD 680-133584/2		99	94	105

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Method Blank - Batch: 680-133584

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-133584/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1319
Date Prepared: 03/25/2009 1319

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq080.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	95	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-133584

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-133584/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1349
Date Prepared: 03/25/2009 1349

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0038.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-133584/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1546
Date Prepared: 03/25/2009 1546

Analysis Batch: 680-133584
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0046.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	121	107	50 - 150	12	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	99	99	75 - 121
4-Bromofluorobenzene	95	94	75 - 120
Toluene-d8 (Surr)	103	105	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28305-1
Sdg Number: 660-28305

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-133584

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-133584/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1349
Date Prepared: 03/25/2009 1349

Units: ug/L

LCSD Lab Sample ID: LCSD 680-133584/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/25/2009 1546
Date Prepared: 03/25/2009 1546

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	60.3	53.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project Number: 660-028305

TestAmerica Denver Lot #: D9C240203

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc

Dee Kettila
for **DiLea Griego**
Project Manager

April 6, 2009

Case Narrative
Lot D9C240203

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt
Five samples were received under chain of custody on March 24, 2009. The samples were received in good condition at a temperature of 3.2°C.

GC/MS Volatiles – Method 8260B
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, sample EW-108A (660-28305-2) had to be performed at a dilution. The reporting limits have been adjusted relative to the dilution required.

The LCS and MS/MSD associated with QC batch 9089295 exhibited percent recoveries outside the QC control limits, biased high, for 2-Pentanone. As 2-Pentanone is not a target compound of interest, corrective action is deemed unnecessary.

The LCS associated with QC batch 9086157 exhibited a percent recovery outside the QC control limits, biased high, for Hexachlorobutadiene. This is an indicator that data may be biased high. As no detectable concentrations of Hexachlorobutadiene are present in the associated samples, corrective action is deemed unnecessary.

The MS/MSD associated with QC batch 9089295 exhibited percent recoveries outside the QC control limits for various analytes. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The MS/MSD associated with QC batch 9086157 exhibited spike compound recoveries and RPD data outside the QC control limits for various compounds. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The Initial Calibration Verification (ICV) standard associated with QC batch 9089295 exhibited a %Relative Standard Deviation (%RSD) greater than the allowed criteria for Ethanol. The overall mean %RSD is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary.

The Initial Calibration Verification (ICV) standard associated with QC batch 9086157 exhibited the %Difference (%D) values greater than the allowed criteria, biased high and low, as noted below. As no detectable concentrations of these compounds are present in the associated samples, corrective action is deemed unnecessary.

Ethanol – low Ethyl acetate – high Carbon disulfide – low

A Continuing Calibration Verification (CCV) standard associated with the sample in QC batch 9089295 exhibited a %Difference (%D) value, biased low, for Ethanol. All CCC and SPCC compounds are in control; therefore, method criteria have been met and corrective action is deemed unnecessary.

A Continuing Calibration Verification (CCV) standard associated with samples in QC batch 9086157 exhibited a %Difference (%D) value, biased high, for Ethanol. All CCC and SPCC compounds are in control; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were observed.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

EXECUTIVE SUMMARY - Detection Highlights

D9C240203

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
EW-103A (660-28305-1) 03/20/09 13:30 001				
Trichloroethene	51	1.0	ug/L	SW846 8260B
Trichlorotrifluoroethane	20	3.0	ug/L	SW846 8260B
1,1-Dichloroethane	24	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	8.2	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	5.9	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.9	1.0	ug/L	SW846 8260B
EW-108A (660-28305-2) 03/20/09 09:50 002				
Vinyl chloride	1700	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	410	50	ug/L	SW846 8260B
EW-109A (660-28305-3) 03/20/09 12:17 003				
Trichloroethene	0.25 J	1.0	ug/L	SW846 8260B
EW-110A (660-28305-4) 03/20/09 11:09 004				
Trichloroethene	0.81 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	1.1	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.1	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	1.7	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.5	1.0	ug/L	SW846 8260B

METHODS SUMMARY

D9C240203

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9C240203

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8260B	Hayley E. Waterland	005423

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9C240203

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K821W	001	EW-103A (660-28305-1)	03/20/09	13:30
K8214	002	EW-108A (660-28305-2)	03/20/09	09:50
K8215	003	EW-109A (660-28305-3)	03/20/09	12:17
K8217	004	EW-110A (660-28305-4)	03/20/09	11:09
K8218	005	TRIP BLANK	03/20/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9C240203

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		9089295	9089270
002	WATER	SW846 8260B		9086157	9086243
003	WATER	SW846 8260B		9086157	9086243
004	WATER	SW846 8260B		9086157	9086243
005	WATER	SW846 8260B		9086157	9086243

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9C240203

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: 001

Batch: 9089295

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-103A (660-28305-1)
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C240203-001
Matrix:	WATER	**Lab WorkOrder:**	K821W1AA
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 13:30
Basis:	Wet	**Date/Time Received:**	03/24/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:43
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**24**	0.16	1.0	
75-35-4	1,1-Dichloroethene	**5.9**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-103A (660-28305-1)
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C240203-001
Matrix:	WATER	**Lab WorkOrder:**	K821W1AA
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 13:30
Basis:	Wet	**Date/Time Received:**	03/24/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:43
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	**8.2**	0.15	1.0	
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-103A (660-28305-1)
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C240203-001
Matrix:	WATER	**Lab WorkOrder:**	K821W1AA
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 13:30
Basis:	Wet	**Date/Time Received:**	03/24/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:43
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**1.9**	0.20	1.0	
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**51**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	**20**	0.79	3.0	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-103A (660-28305-1)
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C240203-001
Matrix:	WATER	**Lab WorkOrder:**	K821W1AA
% Moisture:	N/A	**Date/Time Collected:**	03/20/09 13:30
Basis:	Wet	**Date/Time Received:**	03/24/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:43
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	92	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	81	77	119	
460-00-4	4-Bromofluorobenzene	94	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:14
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:14
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.81	0.81	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:14
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	97	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25RI9H

Lot/SDG Number: D9C240203 **QC Batch ID:** 9089295

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
EW-103A (660-28305-1)	K821W1AA	92	94	81	102					0
LAB MS/MSD MS	K9ATH1AC	111	104	87	98					0
LAB MS/MSD MSD	K9ATH1AD	111	102	88	99					0
INTRA-LAB BLANK	K9CA11AA	105	96	87	97					0
CHECK SAMPLE	K9CA11AC	105	103	87	97					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C300000-295C
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 09:53
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.54	91		72 - 120
Acetone	10.0	9.49	95		48 - 130
Ethylbenzene	5.00	4.53	91		78 - 120
Trichlorofluoromethane	5.00	5.84	117		63 - 135
Hexachlorobutadiene	5.00	5.29	106		73 - 123
2-Hexanone	10.0	10.4	104		57 - 121
Isopropylbenzene	5.00	3.91	78		71 - 120
4-Isopropyltoluene	5.00	5.03	101		76 - 120
Methylene chloride	5.00	4.39	88		71 - 120
4-Methyl-2-pentanone	10.0	10.3	103		65 - 120
Naphthalene	5.00	4.43	89		62 - 121
Benzene	5.00	4.53	91		77 - 120
2-Pentanone	10.0	12.3	123	a	42 - 120
n-Propylbenzene	5.00	4.77	95		76 - 120
Styrene	5.00	4.38	88		77 - 120
1,1,1,2-Tetrachloroethane	5.00	4.53	91		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.57	91		73 - 120
Tetrachloroethene	5.00	4.41	88		77 - 120
Toluene	5.00	4.51	90		73 - 120
1,2,3-Trichlorobenzene	5.00	5.08	102		66 - 123
1,2,4-Trichlorobenzene	5.00	5.10	102		73 - 121
1,1,1-Trichloroethane	5.00	4.73	95		78 - 120
1,1,2-Trichloroethane	5.00	4.71	94		76 - 120
Trichloroethene	5.00	4.39	88		78 - 122
1,2,3-Trichloropropane	5.00	4.05	81		72 - 120
1,2,4-Trimethylbenzene	5.00	4.30	86		77 - 120
1,3,5-Trimethylbenzene	5.00	4.25	85		77 - 120
Vinyl acetate	5.00	4.88	98		63 - 124
Vinyl chloride	5.00	5.49	110		49 - 136

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C300000-295C
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 09:53
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	4.74	95		77 - 120
Xylenes (total)	15.0	13.7	91		77 - 120
Methyl tert-butyl ether	10.0	10.8	108		58 - 120
m-Xylene & p-Xylene	10.0	8.98	90		78 - 120
Bromobenzene	5.00	4.19	84		75 - 120
Bromochloromethane	5.00	4.37	87		78 - 120
Bromodichloromethane	5.00	4.81	96		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.23	85		65 - 120
1,2-Dibromoethane (EDB)	5.00	4.56	91		77 - 120
2-Butanone (MEK)	10.0	10.6	106		57 - 120
Bromoform	5.00	4.81	96		74 - 121
Bromomethane	5.00	6.62	132		42 - 154
n-Butylbenzene	5.00	4.52	90		76 - 120
sec-Butylbenzene	5.00	5.09	102		80 - 120
tert-Butylbenzene	5.00	4.99	100		76 - 120
Carbon disulfide	5.00	3.60	72		56 - 120
Carbon tetrachloride	5.00	4.41	88		80 - 120
Chlorobenzene	5.00	4.53	91		78 - 120
Chlorodibromomethane	5.00	4.56	91		76 - 120
Chloroethane	5.00	5.80	116		51 - 133
2-Chloroethyl vinyl ether	5.00	4.21	84		17 - 150
Chloroform	5.00	4.90	98		78 - 120
Chloromethane	5.00	5.24	105		46 - 142
2-Chlorotoluene	5.00	4.29	86		76 - 120
4-Chlorotoluene	5.00	4.18	84		78 - 120
Dibromomethane	5.00	4.82	96		77 - 120
1,2-Dichlorobenzene	5.00	4.56	91		76 - 120
1,3-Dichlorobenzene	5.00	4.49	90		75 - 120
1,4-Dichlorobenzene	5.00	4.56	91		77 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C300000-295C
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 09:53
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	5.15	103		56 - 140
1,1-Dichloroethane	5.00	5.02	100		77 - 120
1,2-Dichloroethane	5.00	5.09	102		74 - 120
1,1-Dichloroethene	5.00	4.63	93		68 - 133
cis-1,2-Dichloroethene	5.00	4.42	88		75 - 120
trans-1,2-Dichloroethene	5.00	4.50	90		80 - 120
1,2-Dichloroethene (total)	10.0	8.92	89		78 - 120
1,2-Dichloropropane	5.00	4.78	96		76 - 120
1,3-Dichloropropane	5.00	4.76	95		75 - 120
2,2-Dichloropropane	5.00	5.13	103		72 - 128
1,1-Dichloropropene	5.00	4.46	89		75 - 120
cis-1,3-Dichloropropene	5.00	4.67	93		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	97	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	103	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C240203	**MS Lab Sample ID:**	D9A020114-069S
Matrix:	WATER	**MS Lab WorkOrder:**	K9ATH1AC
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.70		94		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	4.93		99		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.78		96		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.83		97		76 - 120
1,1-Dichloroethane	5.00	0.16	U	5.23		105		77 - 120
1,1-Dichloroethene	5.00	0.14	U	4.93		99		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.72		94		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.85		97		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	4.06		81		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.90		98		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	4.50		90		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	0.81	U	4.57		91		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.54		91		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.67		93		76 - 120
1,2-Dichloroethane	5.00	0.13	U	5.37		107		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	9.11		91		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.88		98		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	4.38		88		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.59		92		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.96		99		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.64		93		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.27		105		72 - 128
2-Butanone (MEK)	10.0	1.8	U	12.6		126	a	57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	17 - 150
2-Chlorotoluene	5.00	0.17	U	4.33		87		76 - 120
2-Hexanone	10.0	1.4	U	11.0		110		57 - 121
2-Pentanone	10.0	0.82	U	13.5		135	a	42 - 120
4-Chlorotoluene	5.00	0.17	U	4.28		86		78 - 120
4-Isopropyltoluene	5.00	0.17	U	5.27		105		76 - 120
4-Methyl-2-pentanone	10.0	1.0	U	11.1		111		65 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C240203	**MS Lab Sample ID:**	D9A020114-069S
Matrix:	WATER	**MS Lab WorkOrder:**	K9ATH1AC
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Acetone	10.0	6.2	J	18.7		125		48 - 130
Benzene	5.00	0.16	U	4.68		94		77 - 120
Bromobenzene	5.00	0.17	U	4.18		84		75 - 120
Bromochloromethane	5.00	0.10	U	4.52		90		78 - 120
Bromodichloromethane	5.00	0.17	U	5.30		106		78 - 120
Bromoform	5.00	0.19	U	5.06		101		74 - 121
Bromomethane	5.00	0.21	U	7.24		145		42 - 154
Carbon disulfide	5.00	0.45	U	4.12		82		56 - 120
Carbon tetrachloride	5.00	0.19	U	4.67		93		80 - 120
Chlorobenzene	5.00	0.17	U	4.56		91		78 - 120
Chlorodibromomethane	5.00	0.17	U	5.02		100		76 - 120
Chloroethane	5.00	0.41	U	6.60		132		51 - 133
Chloroform	5.00	0.58	J	5.89		106		78 - 120
Chloromethane	5.00	0.32	J	6.23		118		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.43		89		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.86		97		76 - 120
Dibromomethane	5.00	0.17	U	4.91		98		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	6.08		122		56 - 140
Ethylbenzene	5.00	0.16	U	4.67		93		78 - 120
Hexachlorobutadiene	5.00	0.12	U	4.99		100		73 - 123
Isopropylbenzene	5.00	0.19	U	3.96		79		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	9.35		94		78 - 120
Methyl tert-butyl ether	10.0	25		35.6		111		58 - 120
Methylene chloride	5.00	0.32	U	4.67		93		71 - 120
n-Butylbenzene	5.00	0.14	U	4.78		96		76 - 120
n-Propylbenzene	5.00	0.16	U	4.88		98		76 - 120
Naphthalene	5.00	0.22	U	4.86		97		62 - 121
o-Xylene	5.00	0.19	U	4.84		97		77 - 120
sec-Butylbenzene	5.00	0.17	U	5.20		104		80 - 120
Styrene	5.00	0.17	U	4.45		89		77 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C240203	**MS Lab Sample ID:**	D9A020114-069S
Matrix:	WATER	**MS Lab WorkOrder:**	K9ATH1AC
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
tert-Butylbenzene	5.00	0.16	U	5.09		102		76 - 120
Tetrachloroethene	5.00	0.20	U	4.46		89		77 - 120
Toluene	5.00	0.17	U	4.67		93		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.68		94		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.84		97		72 - 120
Trichloroethene	5.00	0.16	U	4.25		85		78 - 122
Trichlorofluoromethane	5.00	0.29	U	6.81		136	a	63 - 135
Vinyl acetate	5.00	0.94	U	5.76		115		63 - 124
Vinyl chloride	5.00	0.40	U	6.67		133		49 - 136
Xylenes (total)	15.0	0.19	U	14.2		95		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	70	127	
460-00-4	4-Bromofluorobenzene	104	78	118	
1868-53-7	Dibromofluoromethane	87	77	119	
2037-26-5	Toluene-d8	98	80	125	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C240203	**MSD Lab Sample ID:**	D9A020114-069D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9ATH1AD
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:50
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.69		94		0.22		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.94		99		0.11		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.90		98		2.5		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.92		98		1.9		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	5.32		106		1.7		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.93		99		0.060		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.79		96		1.4		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	5.40		108		11		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	4.22		84		3.7		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	5.38		108		9.3		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	4.55		91		1.1		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	0.81	U	4.70		94		2.6		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.77		95		4.9		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.74		95		1.4		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	5.34		107		0.51		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	9.25		92		1.4		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.88		98		0.11		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	4.41		88		0.80		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.67		93		1.9		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	5.02		100		1.2		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.66		93		0.30		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	5.33		107		1.1		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	11.7		117		7.1		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	0.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	4.39		88		1.4		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C240203	**MSD Lab Sample ID:**	D9A020114-069D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9ATH1AD
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:50
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	11.2		112		1.8		57 - 121	25
2-Pentanone	10.0	0.82	U	13.3		133	a	1.6		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.31		86		0.82		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	5.32		106		0.86		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	10.8		108		3.2		65 - 120	22
Acetone	10.0	6.2	J	16.8		106		11		48 - 130	41
Benzene	5.00	0.16	U	4.79		96		2.3		77 - 120	20
Bromobenzene	5.00	0.17	U	4.26		85		2.0		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.54		91		0.42		78 - 120	20
Bromodichloromethane	5.00	0.17	U	5.28		106		0.52		78 - 120	20
Bromoform	5.00	0.19	U	5.04		101		0.36		74 - 121	21
Bromomethane	5.00	0.21	U	6.85		137		5.5		42 - 154	24
Carbon disulfide	5.00	0.45	U	4.12		82		0.030		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	4.70		94		0.60		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.61		92		1.1		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.95		99		1.5		76 - 120	20
Chloroethane	5.00	0.41	U	6.62		132		0.41		51 - 133	25
Chloroform	5.00	0.58	J	5.85		105		0.71		78 - 120	20
Chloromethane	5.00	0.32	J	6.38		121		2.3		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.52		90		2.1		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.93		99		1.6		76 - 120	20
Dibromomethane	5.00	0.17	U	5.01		100		1.9		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	6.22		124		2.4		56 - 140	24
Ethylbenzene	5.00	0.16	U	4.61		92		1.2		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	5.41		108		8.0		73 - 123	25

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C240203	**MSD Lab Sample ID:**	D9A020114-069D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9ATH1AD
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:50
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	4.04		81		2.0		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	9.25		92		1.1		78 - 120	20
Methyl tert-butyl ether	10.0	25		36.8		122	a	3.1		58 - 120	21
Methylene chloride	5.00	0.32	U	4.70		94		0.61		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.80		96		0.46		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.92		98		0.65		76 - 120	20
Naphthalene	5.00	0.22	U	5.23		105		7.4		62 - 121	32
o-Xylene	5.00	0.19	U	4.78		96		1.0		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	5.28		106		1.6		80 - 120	21
Styrene	5.00	0.17	U	4.40		88		1.2		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	5.16		103		1.3		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.52		90		1.3		77 - 120	20
Toluene	5.00	0.17	U	4.72		94		1.1		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.72		94		0.79		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.80		96		0.76		72 - 120	20
Trichloroethene	5.00	0.16	U	4.35		87		2.3		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	6.89		138	a	1.2		63 - 135	20
Vinyl acetate	5.00	0.94	U	6.41		128	a	11		63 - 124	24
Vinyl chloride	5.00	0.40	U	6.75		135		1.2		49 - 136	24
Xylenes (total)	15.0	0.19	U	14.0		94		1.1		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	70	127	
460-00-4	4-Bromofluorobenzene	102	78	118	
1868-53-7	Dibromofluoromethane	88	77	119	
2037-26-5	Toluene-d8	99	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	RR7202.D
Lot/SDG Number:	D9C240203	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab Work Order:**	K9CA11AA
Analysis Method:	8260B	**Date/Time Extracted:**	03/27/09 08:40
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	03/27/09 10:14
QC Batch ID:	9089295	**Instrument ID:**	R2

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
EW-103A (660-28305-1)	K821W1AA	RR7202.D	03/27/09	10:43
LAB MS/MSD MS	K9ATH1AC S	RR7210H.	03/27/09	13:30
LAB MS/MSD MSD	K9ATH1AD D	RR7211H.	03/27/09	13:50
CHECK SAMPLE	K9CA11AC C	RR7200H.	03/27/09	09:53

Serial Number 12207

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SOIL GAS PARAMETER

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location: Savannah + Denver
Phone: 660-28305
Fax:

PROJECT REFERENCE: Tallevast - Soil Gas Parameter	PROJECT NO.: B603855.0020.0002	PROJECT LOCATION (STATE): FL	
SAMPLER'S SIGNATURE	P.O. NUMBER:	CONTRACT NO.	
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157	
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com		
CLIENT ADDRESS: 3350 Buschwood Park Dr., Ste 100, Tampa, FL 33618			
COMPANY CONTRACTING THIS WORK (if applicable): LMC			

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 5

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B (Savannah)	REQUIRED ANALYSIS: Volatiles (Denver)	NUMBER OF CONTAINERS SUBMITTED: HCl	NUMBER OF CONTAINERS SUBMITTED: None	REMARKS
3/20/09	1330	EW-103A	G	X				3	3			
	0950	EW-108A						3	3			
	1217	EW-109A						3	3			
↓	1109	EW-110A	↓	↓				3	3			

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	1900			
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE 3/17/01	TIME 0730	RECEIVED BY: (SIGNATURE)	DATE 3-20-09	TIME 1900	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-20-09	1900	YES ○ NO ○		660-28305	2.9°C	cw-07

TAL8240-660 (1207)

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28305-1
SDG Number: 660-28305

Login Number: 28305
List Source: TestAmerica Tampa
Creator: Volz, Charles
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28305-1
SDG Number: 660-28305

Login Number: 28305
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/24/09 11:29 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

ANALYTICAL REPORT

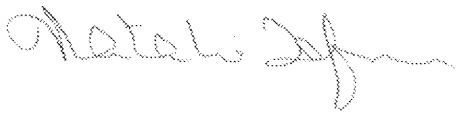
Job Number: 660-28360-1

SDG Number: 660-28360

Job Description: Tallevast Soil Gas Parameters

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/10/2009 10:24 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/10/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28360-1	MW-32A	Water	03/23/2009 1300	03/24/2009 1420
660-28360-2	MW-33A	Water	03/23/2009 1215	03/24/2009 1420
660-28360-3	MW-43A	Water	03/23/2009 1230	03/24/2009 1420
660-28360-4	MW-57A	Water	03/23/2009 1635	03/24/2009 1420
660-28360-5	MW-72A	Water	03/23/2009 1548	03/24/2009 1420
660-28360-6	MW-80A	Water	03/23/2009 1702	03/24/2009 1420
660-28360-7	EW-104A	Water	03/23/2009 1530	03/24/2009 1420
660-28360-8	Trip Blank	Water	03/23/2009 0000	03/24/2009 1420

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: MW-32A

Lab Sample ID: 660-28360-1
Client Matrix: Water

Date Sampled: 03/23/2009 1300
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1550
Date Prepared: 03/31/2009 1550

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0174.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	86	75 - 121
4-Bromofluorobenzene	86	75 - 120
Toluene-d8 (Surr)	112	75 - 120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: MW-33A

Lab Sample ID: 660-28360-2
Client Matrix: Water

Date Sampled: 03/23/2009 1215
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1619
Date Prepared: 03/31/2009 1619

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0176.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	88	75 - 121
4-Bromofluorobenzene	111	75 - 120
Toluene-d8 (Surr)	108	75 - 120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: MW-43A

Lab Sample ID: 660-28360-3
Client Matrix: Water

Date Sampled: 03/23/2009 1230
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1712
Date Prepared: 03/31/2009 1712

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0178.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	106	75 - 120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: MW-57A

Lab Sample ID: 660-28360-4
Client Matrix: Water

Date Sampled: 03/23/2009 1635
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1747
Date Prepared: 03/31/2009 1747

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0180.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	105	75 - 120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: MW-72A

Lab Sample ID: 660-28360-5
Client Matrix: Water

Date Sampled: 03/23/2009 1548
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1817
Date Prepared: 03/31/2009 1817

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0182.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	96	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	105	75 - 120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: MW-80A

Lab Sample ID: 660-28360-6
Client Matrix: Water

Date Sampled: 03/23/2009 1702
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1846
Date Prepared: 03/31/2009 1846

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0184.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	107	75 - 120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: EW-104A

Lab Sample ID: 660-28360-7
Client Matrix: Water

Date Sampled: 03/23/2009 1530
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1320
Date Prepared: 04/01/2009 1320

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0207.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28360-8
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1521
Date Prepared: 03/31/2009 1521

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0172.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	86	75 - 121
4-Bromofluorobenzene	86	75 - 120
Toluene-d8 (Surr)	110	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28360-1	MW-32A	86	86	112
660-28360-2	MW-33A	88	111	108
660-28360-3	MW-43A	98	91	106
660-28360-4	MW-57A	99	91	105
660-28360-5	MW-72A	96	90	105
660-28360-6	MW-80A	99	90	107
660-28360-7	EW-104A	98	92	104
660-28360-8	Trip Blank	86	86	110
MB 680-134007/8		92	86	111
MB 680-134118/10		94	91	103
LCS 680-134007/5		90	89	112
LCS 680-134118/8		96	93	105
LCSD 680-134007/6		91	89	112
LCSD 680-134118/9		95	92	110

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Method Blank - Batch: 680-134007

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134007/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1422
Date Prepared: 03/31/2009 1422

Analysis Batch: 680-134007
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq138.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	92	75 - 121
4-Bromofluorobenzene	86	75 - 120
Toluene-d8 (Surr)	111	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134007

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134007/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1254
Date Prepared: 03/31/2009 1254

Analysis Batch: 680-134007
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq132.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134007/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1323
Date Prepared: 03/31/2009 1323

Analysis Batch: 680-134007
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq134.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	140	127	50 - 150	9	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	90	91	75 - 121
4-Bromofluorobenzene	89	89	75 - 120
Toluene-d8 (Surr)	112	112	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134007

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-134007/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-134007/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	03/31/2009 1254			Date Analyzed:	03/31/2009 1323
Date Prepared:	03/31/2009 1254			Date Prepared:	03/31/2009 1323

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	69.8	63.6

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Method Blank - Batch: 680-134118

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134118/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1258
Date Prepared: 04/01/2009 1258

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq151.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	94	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq148.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq149.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	142	140	50 - 150	1	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	96	95	75 - 121
4-Bromofluorobenzene	93	92	75 - 120
Toluene-d8 (Surr)	105	110	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28360-1
Sdg Number: 660-28360

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Units: ug/L

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	70.9	70.2

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

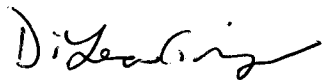
Project Number: 660-28360

TestAmerica Denver Lot #: D9C260153

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc



DiLea Griego
Project Manager

April 6, 2009

Case Narrative
Lot D9C260153

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt
Three samples were received under chain of custody on March 26, 2009. The samples were received in good condition at a temperature of 3.8°C.

GC/MS Volatiles – Method 8260B
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to analytes present above the linear calibration curve, several samples were analyzed at a dilution. The reporting limits have been adjusted relative to the dilution required.

The compound 2-pentanone was detected above reporting limits in the LCS associated with prep batch 9089295. This is not a compound of interest. Therefore, data was not affected. No further action was required.

The MS/MSD associated with QC batch 9089295 exhibited spike compound recoveries outside the QC control limits for various compounds. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The MS/MSD associated with QC batch 9090161 exhibited spike compound recoveries and RPD data outside the QC control limits for various compounds. In addition, a duplicate MS/MSD pair was analyzed for this same batch and exhibited spike compound recoveries outside the QC control limits for acetone. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The Initial Calibration Verification (ICV) standard associated with QC batch 9090161 exhibited a %Relative Standard Deviation (%RSD) greater than the allowed criteria for ethanol. The overall mean %RSD is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary. Associated samples were non-detect for ethanol.

The Initial Calibration Verification (ICV) standard associated with QC batch 9090161 exhibited the %Difference (%D) values greater than the allowed criteria, biased high and low, as noted below. As no detectable concentrations of these compounds are present in the associated samples, corrective action is deemed unnecessary.

carbon disulfide – low ethyl acetate – high

A Continuing Calibration Verification (CCV) standard associated with the samples in QC batch 9090161 exhibited a %Difference (%D) value, biased low, for chloromethane and biased high for ethanol. All CCC and SPCC compounds are in control; therefore, method criteria have been met and

corrective action is deemed unnecessary. Associated samples were non-detect for these compounds.

A Continuing Calibration Verification (CCV) standard associated with the samples in QC batch 9089295 exhibited a %Difference (%D) value, biased low, for ethanol. All CCC and SPCC compounds are in control; therefore, method criteria have been met and corrective action is deemed unnecessary. Associated samples were non-detect.

No other anomalies were observed.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9C260153

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: -001, -003, -005, -006, -007 & -008

Batch: 9089295

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-32A (660-28360-1)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-001
Matrix:	WATER	**Lab WorkOrder:**	K86J41AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 13:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 15:55
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**1.6**	0.16	1.0	
75-35-4	1,1-Dichloroethene	**1.2**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-32A (660-28360-1)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-001
Matrix:	WATER	**Lab WorkOrder:**	K86J41AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 13:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 15:55
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	**0.39**	0.15	1.0	J
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-32A (660-28360-1)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-001
Matrix:	WATER	**Lab WorkOrder:**	K86J41AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 13:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 15:55
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**1.8**	0.20	1.0	
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**5.4**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-32A (660-28360-1)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-001
Matrix:	WATER	**Lab WorkOrder:**	K86J41AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 13:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 15:55
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	99	80	125	
1868-53-7	Dibromofluoromethane	85	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-43A (660-28360-3)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-003
Matrix:	WATER	**Lab WorkOrder:**	K86J71AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 12:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 16:36
Sample Aliquot:	0.3 mL	**Instrument ID:**	R2
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	11	11	67	U
71-55-6	1,1,1-Trichloroethane	11	11	67	U
79-34-5	1,1,2,2-Tetrachloroethane	13	13	67	U
79-00-5	1,1,2-Trichloroethane	21	21	67	U
75-34-3	1,1-Dichloroethane	**500**	11	67	
75-35-4	1,1-Dichloroethene	**1300**	9.3	67	
563-58-6	1,1-Dichloropropene	10	10	67	U
87-61-6	1,2,3-Trichlorobenzene	12	12	67	U
96-18-4	1,2,3-Trichloropropane	51	51	170	U
120-82-1	1,2,4-Trichlorobenzene	21	21	67	U
95-63-6	1,2,4-Trimethylbenzene	9.3	9.3	67	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	100	100	330	U
106-93-4	1,2-Dibromoethane (EDB)	12	12	67	U
95-50-1	1,2-Dichlorobenzene	8.7	8.7	67	U
107-06-2	1,2-Dichloroethane	8.7	8.7	67	U
78-87-5	1,2-Dichloropropane	8.7	8.7	67	U
108-67-8	1,3,5-Trimethylbenzene	9.3	9.3	67	U
541-73-1	1,3-Dichlorobenzene	11	11	67	U
142-28-9	1,3-Dichloropropane	10	10	67	U
106-46-7	1,4-Dichlorobenzene	11	11	67	U
594-20-7	2,2-Dichloropropane	13	13	330	U
78-93-3	2-Butanone (MEK)	120	120	400	U
95-49-8	2-Chlorotoluene	11	11	67	U
591-78-6	2-Hexanone	93	93	330	U
106-43-4	4-Chlorotoluene	11	11	67	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-43A (660-28360-3)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-003
Matrix:	WATER	**Lab WorkOrder:**	K86J71AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 12:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 16:36
Sample Aliquot:	0.3 mL	**Instrument ID:**	R2
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	11	11	67	U
108-10-1	4-Methyl-2-pentanone	69	69	330	U
67-64-1	Acetone	130	130	670	U
75-05-8	Acetonitrile	640	640	2000	U
107-02-8	Acrolein	190	190	1300	U
107-13-1	Acrylonitrile	93	93	1300	U
107-05-1	Allyl chloride	11	11	130	U
71-43-2	Benzene	11	11	67	U
108-86-1	Bromobenzene	11	11	67	U
74-97-5	Bromochloromethane	6.7	6.7	67	U
75-27-4	Bromodichloromethane	11	11	67	U
75-25-2	Bromoform	13	13	67	U
74-83-9	Bromomethane	14	14	130	U
75-15-0	Carbon disulfide	30	30	130	U
56-23-5	Carbon tetrachloride	13	13	67	U
108-90-7	Chlorobenzene	11	11	67	U
124-48-1	Chlorodibromomethane	11	11	67	U
75-00-3	Chloroethane	27	27	130	U
67-66-3	Chloroform	11	11	67	U
74-87-3	Chloromethane	20	20	130	U
156-59-2	cis-1,2-Dichloroethene	**350**	10	67	
10061-01-5	cis-1,3-Dichloropropene	11	11	67	U
74-95-3	Dibromomethane	11	11	67	U
75-71-8	Dichlorodifluoromethane	21	21	130	U
64-17-5	Ethanol	6300	6300	20000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-43A (660-28360-3)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-003
Matrix:	WATER	**Lab WorkOrder:**	K86J71AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 12:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 16:36
Sample Aliquot:	0.3 mL	**Instrument ID:**	R2
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	80	80	330	U
100-41-4	Ethylbenzene	11	11	67	U
87-68-3	Hexachlorobutadiene	8.0	8.0	67	U
67-63-0	Isopropanol	870	870	2700	U
98-82-8	Isopropylbenzene	13	13	67	U
80-62-6	Methyl methacrylate	74	74	270	U
1634-04-4	Methyl tert-butyl ether	17	17	330	U
75-09-2	Methylene chloride	21	21	330	U
136777-61-2	m-Xylene & p-Xylene	23	23	130	U
91-20-3	Naphthalene	15	15	67	U
104-51-8	n-Butylbenzene	9.3	9.3	67	U
103-65-1	n-Propylbenzene	11	11	67	U
95-47-6	o-Xylene	13	13	67	U
135-98-8	sec-Butylbenzene	11	11	67	U
100-42-5	Styrene	11	11	67	U
75-65-0	tert-Butyl alcohol	250	250	3300	U
98-06-6	tert-Butylbenzene	11	11	67	U
127-18-4	Tetrachloroethene	13	13	67	U
109-99-9	Tetrahydrofuran	140	140	470	U
108-88-3	Toluene	11	11	67	U
156-60-5	trans-1,2-Dichloroethene	10	10	67	U
10061-02-6	trans-1,3-Dichloropropene	13	13	200	U
79-01-6	Trichloroethene	**2100**	11	67	
75-69-4	Trichlorofluoromethane	19	19	130	U
76-13-1	Trichlorotrifluoroethane	53	53	200	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-43A (660-28360-3)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-003
Matrix:	WATER	**Lab WorkOrder:**	K86J71AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 12:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 16:36
Sample Aliquot:	0.3 mL	**Instrument ID:**	R2
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	63	63	200	U
75-01-4	Vinyl chloride	27	27	67	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	97	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-72A (660-28360-5)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-005
Matrix:	WATER	**Lab WorkOrder:**	K86J91AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:48
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-72A (660-28360-5)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-005
Matrix:	WATER	**Lab WorkOrder:**	K86J91AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:48
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	**12**	1.9	10	
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-72A (660-28360-5)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-005
Matrix:	WATER	**Lab WorkOrder:**	K86J91AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:48
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**0.76**	0.20	1.0	J
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**0.92**	0.16	1.0	J
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-72A (660-28360-5)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-005
Matrix:	WATER	**Lab WorkOrder:**	K86J91AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:48
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	100	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-80A (660-28360-6)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-006
Matrix:	WATER	**Lab WorkOrder:**	K86KC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 17:02
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:20
Sample Aliquot:	4 mL	**Instrument ID:**	R2
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.85	0.85	5.0	U
71-55-6	1,1,1-Trichloroethane	0.80	0.80	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	1.0	5.0	U
79-00-5	1,1,2-Trichloroethane	1.6	1.6	5.0	U
75-34-3	1,1-Dichloroethane	**15**	0.80	5.0	
75-35-4	1,1-Dichloroethene	**120**	0.70	5.0	
563-58-6	1,1-Dichloropropene	0.75	0.75	5.0	U
87-61-6	1,2,3-Trichlorobenzene	0.90	0.90	5.0	U
96-18-4	1,2,3-Trichloropropane	3.8	3.8	12	U
120-82-1	1,2,4-Trichlorobenzene	1.6	1.6	5.0	U
95-63-6	1,2,4-Trimethylbenzene	0.70	0.70	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	7.5	7.5	25	U
106-93-4	1,2-Dibromoethane (EDB)	0.90	0.90	5.0	U
95-50-1	1,2-Dichlorobenzene	0.65	0.65	5.0	U
107-06-2	1,2-Dichloroethane	0.65	0.65	5.0	U
78-87-5	1,2-Dichloropropane	0.65	0.65	5.0	U
108-67-8	1,3,5-Trimethylbenzene	0.70	0.70	5.0	U
541-73-1	1,3-Dichlorobenzene	0.80	0.80	5.0	U
142-28-9	1,3-Dichloropropane	0.75	0.75	5.0	U
106-46-7	1,4-Dichlorobenzene	0.80	0.80	5.0	U
594-20-7	2,2-Dichloropropane	1.0	1.0	25	U
78-93-3	2-Butanone (MEK)	9.2	9.2	30	U
95-49-8	2-Chlorotoluene	0.85	0.85	5.0	U
591-78-6	2-Hexanone	7.0	7.0	25	U
106-43-4	4-Chlorotoluene	0.85	0.85	5.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-80A (660-28360-6)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-006
Matrix:	WATER	**Lab WorkOrder:**	K86KC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 17:02
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:20
Sample Aliquot:	4 mL	**Instrument ID:**	R2
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.85	0.85	5.0	U
108-10-1	4-Methyl-2-pentanone	5.2	5.2	25	U
67-64-1	Acetone	9.5	9.5	50	U
75-05-8	Acetonitrile	48	48	150	U
107-02-8	Acrolein	14	14	100	U
107-13-1	Acrylonitrile	7.0	7.0	100	U
107-05-1	Allyl chloride	0.85	0.85	10	U
71-43-2	Benzene	0.80	0.80	5.0	U
108-86-1	Bromobenzene	0.85	0.85	5.0	U
74-97-5	Bromochloromethane	0.50	0.50	5.0	U
75-27-4	Bromodichloromethane	0.85	0.85	5.0	U
75-25-2	Bromoform	0.95	0.95	5.0	U
74-83-9	Bromomethane	1.0	1.0	10	U
75-15-0	Carbon disulfide	2.2	2.2	10	U
56-23-5	Carbon tetrachloride	0.95	0.95	5.0	U
108-90-7	Chlorobenzene	**2.4**	0.85	5.0	J
124-48-1	Chlorodibromomethane	0.85	0.85	5.0	U
75-00-3	Chloroethane	2.0	2.0	10	U
67-66-3	Chloroform	0.80	0.80	5.0	U
74-87-3	Chloromethane	1.5	1.5	10	U
156-59-2	cis-1,2-Dichloroethene	**5.5**	0.75	5.0	
10061-01-5	cis-1,3-Dichloropropene	0.80	0.80	5.0	U
74-95-3	Dibromomethane	0.85	0.85	5.0	U
75-71-8	Dichlorodifluoromethane	1.6	1.6	10	U
64-17-5	Ethanol	470	470	1500	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-80A (660-28360-6)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-006
Matrix:	WATER	**Lab WorkOrder:**	K86KC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 17:02
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:20
Sample Aliquot:	4 mL	**Instrument ID:**	R2
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	6.0	6.0	25	U
100-41-4	Ethylbenzene	0.80	0.80	5.0	U
87-68-3	Hexachlorobutadiene	0.60	0.60	5.0	U
67-63-0	Isopropanol	65	65	200	U
98-82-8	Isopropylbenzene	0.95	0.95	5.0	U
80-62-6	Methyl methacrylate	5.6	5.6	20	U
1634-04-4	Methyl tert-butyl ether	1.2	1.2	25	U
75-09-2	Methylene chloride	1.6	1.6	25	U
136777-61-2	m-Xylene & p-Xylene	1.7	1.7	10	U
91-20-3	Naphthalene	1.1	1.1	5.0	U
104-51-8	n-Butylbenzene	0.70	0.70	5.0	U
103-65-1	n-Propylbenzene	0.80	0.80	5.0	U
95-47-6	o-Xylene	0.95	0.95	5.0	U
135-98-8	sec-Butylbenzene	0.85	0.85	5.0	U
100-42-5	Styrene	0.85	0.85	5.0	U
75-65-0	tert-Butyl alcohol	19	19	250	U
98-06-6	tert-Butylbenzene	0.80	0.80	5.0	U
127-18-4	Tetrachloroethene	**3.9**	1.0	5.0	J
109-99-9	Tetrahydrofuran	10	10	35	U
108-88-3	Toluene	0.85	0.85	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.75	0.75	5.0	U
10061-02-6	trans-1,3-Dichloropropene	0.95	0.95	15	U
79-01-6	Trichloroethene	**20**	0.80	5.0	
75-69-4	Trichlorofluoromethane	1.4	1.4	10	U
76-13-1	Trichlorotrifluoroethane	4.0	4.0	15	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-80A (660-28360-6)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-006
Matrix:	WATER	**Lab WorkOrder:**	K86KC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 17:02
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:20
Sample Aliquot:	4 mL	**Instrument ID:**	R2
Dilution Factor:	5		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	4.7	4.7	15	U
75-01-4	Vinyl chloride	2.0	2.0	5.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	88	77	119	
460-00-4	4-Bromofluorobenzene	98	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-104A (660-28360-7)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-007
Matrix:	WATER	**Lab WorkOrder:**	K86KD1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:41
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	2.3	2.3	13	U
71-55-6	1,1,1-Trichloroethane	2.1	2.1	13	U
79-34-5	1,1,2,2-Tetrachloroethane	2.7	2.7	13	U
79-00-5	1,1,2-Trichloroethane	4.3	4.3	13	U
75-34-3	1,1-Dichloroethane	**58**	2.1	13	
75-35-4	1,1-Dichloroethene	**5.9**	1.9	13	J
563-58-6	1,1-Dichloropropene	2.0	2.0	13	U
87-61-6	1,2,3-Trichlorobenzene	2.4	2.4	13	U
96-18-4	1,2,3-Trichloropropane	10	10	33	U
120-82-1	1,2,4-Trichlorobenzene	4.3	4.3	13	U
95-63-6	1,2,4-Trimethylbenzene	1.9	1.9	13	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	20	20	67	U
106-93-4	1,2-Dibromoethane (EDB)	2.4	2.4	13	U
95-50-1	1,2-Dichlorobenzene	1.7	1.7	13	U
107-06-2	1,2-Dichloroethane	1.7	1.7	13	U
78-87-5	1,2-Dichloropropane	1.7	1.7	13	U
108-67-8	1,3,5-Trimethylbenzene	1.9	1.9	13	U
541-73-1	1,3-Dichlorobenzene	2.1	2.1	13	U
142-28-9	1,3-Dichloropropane	2.0	2.0	13	U
106-46-7	1,4-Dichlorobenzene	2.1	2.1	13	U
594-20-7	2,2-Dichloropropane	2.7	2.7	67	U
78-93-3	2-Butanone (MEK)	24	24	80	U
95-49-8	2-Chlorotoluene	2.3	2.3	13	U
591-78-6	2-Hexanone	19	19	67	U
106-43-4	4-Chlorotoluene	2.3	2.3	13	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-104A (660-28360-7)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-007
Matrix:	WATER	**Lab WorkOrder:**	K86KD1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:41
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	2.3	2.3	13	U
108-10-1	4-Methyl-2-pentanone	14	14	67	U
67-64-1	Acetone	25	25	130	U
75-05-8	Acetonitrile	130	130	400	U
107-02-8	Acrolein	37	37	270	U
107-13-1	Acrylonitrile	19	19	270	U
107-05-1	Allyl chloride	2.3	2.3	27	U
71-43-2	Benzene	2.1	2.1	13	U
108-86-1	Bromobenzene	2.3	2.3	13	U
74-97-5	Bromochloromethane	1.3	1.3	13	U
75-27-4	Bromodichloromethane	2.3	2.3	13	U
75-25-2	Bromoform	2.5	2.5	13	U
74-83-9	Bromomethane	2.8	2.8	27	U
75-15-0	Carbon disulfide	6.0	6.0	27	U
56-23-5	Carbon tetrachloride	2.5	2.5	13	U
108-90-7	Chlorobenzene	2.3	2.3	13	U
124-48-1	Chlorodibromomethane	2.3	2.3	13	U
75-00-3	Chloroethane	5.5	5.5	27	U
67-66-3	Chloroform	2.1	2.1	13	U
74-87-3	Chloromethane	4.0	4.0	27	U
156-59-2	cis-1,2-Dichloroethene	**35**	2.0	13	
10061-01-5	cis-1,3-Dichloropropene	2.1	2.1	13	U
74-95-3	Dibromomethane	2.3	2.3	13	U
75-71-8	Dichlorodifluoromethane	4.1	4.1	27	U
64-17-5	Ethanol	1300	1300	4000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-104A (660-28360-7)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-007
Matrix:	WATER	**Lab WorkOrder:**	K86KD1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:41
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	16	16	67	U
100-41-4	Ethylbenzene	2.1	2.1	13	U
87-68-3	Hexachlorobutadiene	1.6	1.6	13	U
67-63-0	Isopropanol	170	170	530	U
98-82-8	Isopropylbenzene	2.5	2.5	13	U
80-62-6	Methyl methacrylate	15	15	53	U
1634-04-4	Methyl tert-butyl ether	3.3	3.3	67	U
75-09-2	Methylene chloride	4.3	4.3	67	U
136777-61-2	m-Xylene & p-Xylene	4.5	4.5	27	U
91-20-3	Naphthalene	2.9	2.9	13	U
104-51-8	n-Butylbenzene	1.9	1.9	13	U
103-65-1	n-Propylbenzene	2.1	2.1	13	U
95-47-6	o-Xylene	2.5	2.5	13	U
135-98-8	sec-Butylbenzene	2.3	2.3	13	U
100-42-5	Styrene	2.3	2.3	13	U
75-65-0	tert-Butyl alcohol	51	51	670	U
98-06-6	tert-Butylbenzene	2.1	2.1	13	U
127-18-4	Tetrachloroethene	2.7	2.7	13	U
109-99-9	Tetrahydrofuran	27	27	93	U
108-88-3	Toluene	2.3	2.3	13	U
156-60-5	trans-1,2-Dichloroethene	2.0	2.0	13	U
10061-02-6	trans-1,3-Dichloropropene	2.5	2.5	40	U
79-01-6	Trichloroethene	**680**	2.1	13	
75-69-4	Trichlorofluoromethane	3.9	3.9	27	U
76-13-1	Trichlorotrifluoroethane	11	11	40	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-104A (660-28360-7)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-007
Matrix:	WATER	**Lab WorkOrder:**	K86KD1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 15:30
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 18:41
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	13	13	40	U
75-01-4	Vinyl chloride	**17**	5.3	13	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	110	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	89	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK (660-28360-8)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-008
Matrix:	WATER	**Lab WorkOrder:**	K86KG1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 00:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 11:03
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK (660-28360-8)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-008
Matrix:	WATER	**Lab WorkOrder:**	K86KG1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 00:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 11:03
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK (660-28360-8)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-008
Matrix:	WATER	**Lab WorkOrder:**	K86KG1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 00:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 11:03
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK (660-28360-8)
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C260153-008
Matrix:	WATER	**Lab WorkOrder:**	K86KG1AA
% Moisture:	N/A	**Date/Time Collected:**	03/23/09 00:00
Basis:	Wet	**Date/Time Received:**	03/26/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 11:03
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
2037-26-5	Toluene-d8	101	80	125	
1868-53-7	Dibromofluoromethane	85	77	119	
460-00-4	4-Bromofluorobenzene	94	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:14
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:14
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.81	0.81	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 10:14
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	97	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25RI9H
Lot/SDG Number: D9C260153 **QC Batch ID:** 9089295

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
MW-32A (660-28360-1)	K86J41AA	105	96	85	99					0
MW-43A (660-28360-3)	K86J71AA	111	97	87	102					0
MW-72A (660-28360-5)	K86J91AA	107	100	87	102					0
MW-80A (660-28360-6)	K86KC1AA	107	98	88	102					0
EW-104A (660-28360-7)	K86KD1AA	110	96	89	102					0
TRIP BLANK (660-28360-8)	K86KG1AA	101	94	85	101					0
LAB MS/MSD MS	K9ATH1AC	111	104	87	98					0
LAB MS/MSD MSD	K9ATH1AD	111	102	88	99					0
INTRA-LAB BLANK	K9CA11AA	105	96	87	97					0
CHECK SAMPLE	K9CA11AC	105	103	87	97					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C300000-295C
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 09:53
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.54	91		72 - 120
Acetone	10.0	9.49	95		48 - 130
Ethylbenzene	5.00	4.53	91		78 - 120
Trichlorofluoromethane	5.00	5.84	117		63 - 135
Hexachlorobutadiene	5.00	5.29	106		73 - 123
2-Hexanone	10.0	10.4	104		57 - 121
Isopropylbenzene	5.00	3.91	78		71 - 120
4-Isopropyltoluene	5.00	5.03	101		76 - 120
Methylene chloride	5.00	4.39	88		71 - 120
4-Methyl-2-pentanone	10.0	10.3	103		65 - 120
Naphthalene	5.00	4.43	89		62 - 121
Benzene	5.00	4.53	91		77 - 120
2-Pentanone	10.0	12.3	123	a	42 - 120
n-Propylbenzene	5.00	4.77	95		76 - 120
Styrene	5.00	4.38	88		77 - 120
1,1,1,2-Tetrachloroethane	5.00	4.53	91		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.57	91		73 - 120
Tetrachloroethene	5.00	4.41	88		77 - 120
Toluene	5.00	4.51	90		73 - 120
1,2,3-Trichlorobenzene	5.00	5.08	102		66 - 123
1,2,4-Trichlorobenzene	5.00	5.10	102		73 - 121
1,1,1-Trichloroethane	5.00	4.73	95		78 - 120
1,1,2-Trichloroethane	5.00	4.71	94		76 - 120
Trichloroethene	5.00	4.39	88		78 - 122
1,2,3-Trichloropropane	5.00	4.05	81		72 - 120
1,2,4-Trimethylbenzene	5.00	4.30	86		77 - 120
1,3,5-Trimethylbenzene	5.00	4.25	85		77 - 120
Vinyl acetate	5.00	4.88	98		63 - 124
Vinyl chloride	5.00	5.49	110		49 - 136

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C300000-295C
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 09:53
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	4.74	95		77 - 120
Xylenes (total)	15.0	13.7	91		77 - 120
Methyl tert-butyl ether	10.0	10.8	108		58 - 120
m-Xylene & p-Xylene	10.0	8.98	90		78 - 120
Bromobenzene	5.00	4.19	84		75 - 120
Bromochloromethane	5.00	4.37	87		78 - 120
Bromodichloromethane	5.00	4.81	96		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.23	85		65 - 120
1,2-Dibromoethane (EDB)	5.00	4.56	91		77 - 120
2-Butanone (MEK)	10.0	10.6	106		57 - 120
Bromoform	5.00	4.81	96		74 - 121
Bromomethane	5.00	6.62	132		42 - 154
n-Butylbenzene	5.00	4.52	90		76 - 120
sec-Butylbenzene	5.00	5.09	102		80 - 120
tert-Butylbenzene	5.00	4.99	100		76 - 120
Carbon disulfide	5.00	3.60	72		56 - 120
Carbon tetrachloride	5.00	4.41	88		80 - 120
Chlorobenzene	5.00	4.53	91		78 - 120
Chlorodibromomethane	5.00	4.56	91		76 - 120
Chloroethane	5.00	5.80	116		51 - 133
2-Chloroethyl vinyl ether	5.00	4.21	84		17 - 150
Chloroform	5.00	4.90	98		78 - 120
Chloromethane	5.00	5.24	105		46 - 142
2-Chlorotoluene	5.00	4.29	86		76 - 120
4-Chlorotoluene	5.00	4.18	84		78 - 120
Dibromomethane	5.00	4.82	96		77 - 120
1,2-Dichlorobenzene	5.00	4.56	91		76 - 120
1,3-Dichlorobenzene	5.00	4.49	90		75 - 120
1,4-Dichlorobenzene	5.00	4.56	91		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C300000-295C
Matrix:	WATER	**Lab WorkOrder:**	K9CA11AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 09:53
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	5.15	103		56 - 140
1,1-Dichloroethane	5.00	5.02	100		77 - 120
1,2-Dichloroethane	5.00	5.09	102		74 - 120
1,1-Dichloroethene	5.00	4.63	93		68 - 133
cis-1,2-Dichloroethene	5.00	4.42	88		75 - 120
trans-1,2-Dichloroethene	5.00	4.50	90		80 - 120
1,2-Dichloroethene (total)	10.0	8.92	89		78 - 120
1,2-Dichloropropane	5.00	4.78	96		76 - 120
1,3-Dichloropropane	5.00	4.76	95		75 - 120
2,2-Dichloropropane	5.00	5.13	103		72 - 128
1,1-Dichloropropene	5.00	4.46	89		75 - 120
cis-1,3-Dichloropropene	5.00	4.67	93		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	97	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	103	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C260153	**MS Lab Sample ID:**	D9A020114-069S
Matrix:	WATER	**MS Lab WorkOrder:**	K9ATH1AC
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.70		94		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	4.93		99		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.78		96		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.83		97		76 - 120
1,1-Dichloroethane	5.00	0.16	U	5.23		105		77 - 120
1,1-Dichloroethene	5.00	0.14	U	4.93		99		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.72		94		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.85		97		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	4.06		81		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.90		98		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	4.50		90		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	0.81	U	4.57		91		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.54		91		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.67		93		76 - 120
1,2-Dichloroethane	5.00	0.13	U	5.37		107		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	9.11		91		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.88		98		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	4.38		88		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.59		92		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.96		99		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.64		93		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.27		105		72 - 128
2-Butanone (MEK)	10.0	1.8	U	12.6		126	a	57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	17 - 150
2-Chlorotoluene	5.00	0.17	U	4.33		87		76 - 120
2-Hexanone	10.0	1.4	U	11.0		110		57 - 121
2-Pentanone	10.0	0.82	U	13.5		135	a	42 - 120
4-Chlorotoluene	5.00	0.17	U	4.28		86		78 - 120
4-Isopropyltoluene	5.00	0.17	U	5.27		105		76 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C260153	**MS Lab Sample ID:**	D9A020114-069S
Matrix:	WATER	**MS Lab WorkOrder:**	K9ATH1AC
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
4-Methyl-2-pentanone	10.0	1.0	U	11.1		111		65 - 120
Acetone	10.0	6.2	J	18.7		125		48 - 130
Benzene	5.00	0.16	U	4.68		94		77 - 120
Bromobenzene	5.00	0.17	U	4.18		84		75 - 120
Bromochloromethane	5.00	0.10	U	4.52		90		78 - 120
Bromodichloromethane	5.00	0.17	U	5.30		106		78 - 120
Bromoform	5.00	0.19	U	5.06		101		74 - 121
Bromomethane	5.00	0.21	U	7.24		145		42 - 154
Carbon disulfide	5.00	0.45	U	4.12		82		56 - 120
Carbon tetrachloride	5.00	0.19	U	4.67		93		80 - 120
Chlorobenzene	5.00	0.17	U	4.56		91		78 - 120
Chlorodibromomethane	5.00	0.17	U	5.02		100		76 - 120
Chloroethane	5.00	0.41	U	6.60		132		51 - 133
Chloroform	5.00	0.58	J	5.89		106		78 - 120
Chloromethane	5.00	0.32	J	6.23		118		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.43		89		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.86		97		76 - 120
Dibromomethane	5.00	0.17	U	4.91		98		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	6.08		122		56 - 140
Ethylbenzene	5.00	0.16	U	4.67		93		78 - 120
Hexachlorobutadiene	5.00	0.12	U	4.99		100		73 - 123
Isopropylbenzene	5.00	0.19	U	3.96		79		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	9.35		94		78 - 120
Methyl tert-butyl ether	10.0	25		35.6		111		58 - 120
Methylene chloride	5.00	0.32	U	4.67		93		71 - 120
n-Butylbenzene	5.00	0.14	U	4.78		96		76 - 120
n-Propylbenzene	5.00	0.16	U	4.88		98		76 - 120
Naphthalene	5.00	0.22	U	4.86		97		62 - 121
o-Xylene	5.00	0.19	U	4.84		97		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C260153	**MS Lab Sample ID:**	D9A020114-069S
Matrix:	WATER	**MS Lab WorkOrder:**	K9ATH1AC
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
sec-Butylbenzene	5.00	0.17	U	5.20		104		80 - 120
Styrene	5.00	0.17	U	4.45		89		77 - 120
tert-Butylbenzene	5.00	0.16	U	5.09		102		76 - 120
Tetrachloroethene	5.00	0.20	U	4.46		89		77 - 120
Toluene	5.00	0.17	U	4.67		93		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.68		94		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.84		97		72 - 120
Trichloroethene	5.00	0.16	U	4.25		85		78 - 122
Trichlorofluoromethane	5.00	0.29	U	6.81		136	a	63 - 135
Vinyl acetate	5.00	0.94	U	5.76		115		63 - 124
Vinyl chloride	5.00	0.40	U	6.67		133		49 - 136
Xylenes (total)	15.0	0.19	U	14.2		95		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	70	127	
460-00-4	4-Bromofluorobenzene	104	78	118	
1868-53-7	Dibromofluoromethane	87	77	119	
2037-26-5	Toluene-d8	98	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C260153	**MSD Lab Sample ID:**	D9A020114-069D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9ATH1AD
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:50
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.69		94		0.22		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.94		99		0.11		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.90		98		2.5		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.92		98		1.9		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	5.32		106		1.7		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.93		99		0.060		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.79		96		1.4		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	5.40		108		11		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	4.22		84		3.7		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	5.38		108		9.3		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	4.55		91		1.1		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	0.81	U	4.70		94		2.6		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.77		95		4.9		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.74		95		1.4		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	5.34		107		0.51		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	9.25		92		1.4		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.88		98		0.11		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	4.41		88		0.80		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.67		93		1.9		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	5.02		100		1.2		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.66		93		0.30		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	5.33		107		1.1		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	11.7		117		7.1		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	0.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	4.39		88		1.4		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C260153	**MSD Lab Sample ID:**	D9A020114-069D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9ATH1AD
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:50
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	11.2		112		1.8		57 - 121	25
2-Pentanone	10.0	0.82	U	13.3		133	a	1.6		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.31		86		0.82		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	5.32		106		0.86		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	10.8		108		3.2		65 - 120	22
Acetone	10.0	6.2	J	16.8		106		11		48 - 130	41
Benzene	5.00	0.16	U	4.79		96		2.3		77 - 120	20
Bromobenzene	5.00	0.17	U	4.26		85		2.0		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.54		91		0.42		78 - 120	20
Bromodichloromethane	5.00	0.17	U	5.28		106		0.52		78 - 120	20
Bromoform	5.00	0.19	U	5.04		101		0.36		74 - 121	21
Bromomethane	5.00	0.21	U	6.85		137		5.5		42 - 154	24
Carbon disulfide	5.00	0.45	U	4.12		82		0.030		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	4.70		94		0.60		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.61		92		1.1		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.95		99		1.5		76 - 120	20
Chloroethane	5.00	0.41	U	6.62		132		0.41		51 - 133	25
Chloroform	5.00	0.58	J	5.85		105		0.71		78 - 120	20
Chloromethane	5.00	0.32	J	6.38		121		2.3		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.52		90		2.1		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.93		99		1.6		76 - 120	20
Dibromomethane	5.00	0.17	U	5.01		100		1.9		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	6.22		124		2.4		56 - 140	24
Ethylbenzene	5.00	0.16	U	4.61		92		1.2		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	5.41		108		8.0		73 - 123	25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C260153	**MSD Lab Sample ID:**	D9A020114-069D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9ATH1AD
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 00:30
Basis:	Wet	**Date/Time Received:**	03/26/09 00:31
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/27/09 08:40
QC Batch ID:	9089295	**Date/Time Analyzed:**	03/27/09 13:50
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	4.04		81		2.0		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	9.25		92		1.1		78 - 120	20
Methyl tert-butyl ether	10.0	25		36.8		122	a	3.1		58 - 120	21
Methylene chloride	5.00	0.32	U	4.70		94		0.61		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.80		96		0.46		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.92		98		0.65		76 - 120	20
Naphthalene	5.00	0.22	U	5.23		105		7.4		62 - 121	32
o-Xylene	5.00	0.19	U	4.78		96		1.0		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	5.28		106		1.6		80 - 120	21
Styrene	5.00	0.17	U	4.40		88		1.2		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	5.16		103		1.3		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.52		90		1.3		77 - 120	20
Toluene	5.00	0.17	U	4.72		94		1.1		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.72		94		0.79		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.80		96		0.76		72 - 120	20
Trichloroethene	5.00	0.16	U	4.35		87		2.3		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	6.89		138	a	1.2		63 - 135	20
Vinyl acetate	5.00	0.94	U	6.41		128	a	11		63 - 124	24
Vinyl chloride	5.00	0.40	U	6.75		135		1.2		49 - 136	24
Xylenes (total)	15.0	0.19	U	14.0		94		1.1		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	111	70	127	
460-00-4	4-Bromofluorobenzene	102	78	118	
1868-53-7	Dibromofluoromethane	88	77	119	
2037-26-5	Toluene-d8	99	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	RR7217.D
Lot/SDG Number:	D9C260153	**Lab Sample ID:**	D9C300000-295B
Matrix:	WATER	**Lab Work Order:**	K9CA11AA
Analysis Method:	8260B	**Date/Time Extracted:**	03/27/09 08:40
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	03/27/09 10:14
QC Batch ID:	9089295	**Instrument ID:**	R2

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
MW-32A (660-28360-1)	K86J41AA	RR7217.D	03/27/09	15:55
MW-43A (660-28360-3)	K86J71AA	RR7219.D	03/27/09	16:36
MW-72A (660-28360-5)	K86J91AA	RR7223.D	03/27/09	17:59
MW-80A (660-28360-6)	K86KC1AA	RR7224.D	03/27/09	18:20
EW-104A (660-28360-7)	K86KD1AA	RR7225.D	03/27/09	18:41
TRIP BLANK (660-28360-8)	K86KG1AA	RR7203.D	03/27/09	11:03
LAB MS/MSD MS	K9ATH1AC S	RR7210H.	03/27/09	13:30
LAB MS/MSD MSD	K9ATH1AD D	RR7211H.	03/27/09	13:50
CHECK SAMPLE	K9CA11AC C	RR7200H.	03/27/09	09:53

Serial Number 12225

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil Gas Parameter

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Savannah & Denver
Phone:
Fax:

PROJECT REFERENCE: Tallevast - Soil Gas Parameter	PROJECT NO.: B038055.0020.00002	PROJECT LOCATION (STATE): FL	PAGE 1 OF 1
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ●
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157	DATE DUE
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.Thalman@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B (Savannah)	REQUIRED ANALYSIS: Volatiles (Denver)	REMARKS
		PRESERVATIVE						HCl	None	
								NUMBER OF CONTAINERS SUBMITTED		
3/23/09	1300	MW-32A	G	X				3	3	
	1215	MW-33A						3	3	
	1230	MW-43A						3	3	
	1635	MW-57A						3	3	
	1548	MW-72A						3	3	
	1702	MW-80A						3	3	
	1530	EW-104A						3	3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305		3/24/09	1420
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-24-09	1420	YES ○ NO ○		660-28360	2.6°C cw07	

TAL 8240-660 (1207)

Page 67 of 69

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28360-1
SDG Number: 660-28360

Login Number: 28360
List Source: TestAmerica Tampa
Creator: Volz, Charles
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.6 degrees C CU-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28360-1
SDG Number: 660-28360

Login Number: 28360
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/26/09 11:41 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 660-28395-1

SDG Number: 660-28395

Job Description: Tallevast - Soil Gas Parameter

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda

Approved for release.
Natalie Tafuni
Project Manager I
4/13/2009 10:12 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/13/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28395-1	MW-19A	Water	03/24/2009 1400	03/25/2009 1500
660-28395-2	MW-134A	Water	03/24/2009 1010	03/25/2009 1500
660-28395-3	MW-41A	Water	03/24/2009 1006	03/25/2009 1500
660-28395-4	MW-130A	Water	03/24/2009 0850	03/25/2009 1500
660-28395-5	MW-253A	Water	03/24/2009 1615	03/25/2009 1500
660-28395-6	EW-101A	Water	03/24/2009 1217	03/25/2009 1500
660-28395-7	EW-107A	Water	03/24/2009 1045	03/25/2009 1500
660-28395-8	EW-106A	Water	03/24/2009 1310	03/25/2009 1500
660-28395-9	MW-252A	Water	03/24/2009 1733	03/25/2009 1500
660-28395-10	Trip Blank	Water	03/24/2009 0000	03/25/2009 1500

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: MW-19A

Lab Sample ID: 660-28395-1
Client Matrix: Water

Date Sampled: 03/24/2009 1400
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1404
Date Prepared: 04/01/2009 1404

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0209.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	97	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: MW-134A

Lab Sample ID: 660-28395-2
Client Matrix: Water

Date Sampled: 03/24/2009 1010
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1426
Date Prepared: 04/01/2009 1426

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0210.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: MW-41A

Lab Sample ID: 660-28395-3
Client Matrix: Water

Date Sampled: 03/24/2009 1006
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1603
Date Prepared: 04/01/2009 1603

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0214.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	95	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	101	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: MW-130A

Lab Sample ID: 660-28395-4
Client Matrix: Water

Date Sampled: 03/24/2009 0850
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1626
Date Prepared: 04/01/2009 1626

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0215.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	105	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: MW-253A

Lab Sample ID: 660-28395-5
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1648
Date Prepared: 04/01/2009 1648

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0216.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	87	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: EW-101A

Lab Sample ID: 660-28395-6
Client Matrix: Water

Date Sampled: 03/24/2009 1217
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1709
Date Prepared: 04/01/2009 1709

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0217.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	106	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: EW-107A

Lab Sample ID: 660-28395-7
Client Matrix: Water

Date Sampled: 03/24/2009 1045
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1449
Date Prepared: 04/01/2009 1449

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0211.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: EW-106A

Lab Sample ID: 660-28395-8
Client Matrix: Water

Date Sampled: 03/24/2009 1310
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1520
Date Prepared: 04/01/2009 1520

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0212.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: MW-252A

Lab Sample ID: 660-28395-9
Client Matrix: Water

Date Sampled: 03/24/2009 1733
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1542
Date Prepared: 04/01/2009 1542

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0213.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	97	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28395-10
Client Matrix: Water

Date Sampled: 03/24/2009 0000
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1451
Date Prepared: 03/31/2009 1451

Analysis Batch: 680-134007

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0170.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	87	75 - 121
4-Bromofluorobenzene	86	75 - 120
Toluene-d8 (Surr)	111	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28395-1	MW-19A	97	92	104
660-28395-2	MW-134A	98	91	104
660-28395-3	MW-41A	95	90	101
660-28395-4	MW-130A	98	90	105
660-28395-5	MW-253A	98	87	103
660-28395-6	EW-101A	98	90	106
660-28395-7	EW-107A	98	90	104
660-28395-8	EW-106A	98	92	103
660-28395-9	MW-252A	97	90	104
660-28395-10	Trip Blank	87	86	111
MB 680-134007/8		92	86	111
MB 680-134118/10		94	91	103
LCS 680-134007/5		90	89	112
LCS 680-134118/8		96	93	105
LCSD 680-134007/6		91	89	112
LCSD 680-134118/9		95	92	110

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Method Blank - Batch: 680-134007

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134007/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1422
Date Prepared: 03/31/2009 1422

Analysis Batch: 680-134007
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq138.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	92	75 - 121
4-Bromofluorobenzene	86	75 - 120
Toluene-d8 (Surr)	111	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134007

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134007/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1254
Date Prepared: 03/31/2009 1254

Analysis Batch: 680-134007
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq132.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134007/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/31/2009 1323
Date Prepared: 03/31/2009 1323

Analysis Batch: 680-134007
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq134.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	140	127	50 - 150	9	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	90	91	75 - 121
4-Bromofluorobenzene	89	89	75 - 120
Toluene-d8 (Surr)	112	112	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134007

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-134007/5	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-134007/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	03/31/2009 1254			Date Analyzed:	03/31/2009 1323
Date Prepared:	03/31/2009 1254			Date Prepared:	03/31/2009 1323

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	69.8	63.6

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Method Blank - Batch: 680-134118

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134118/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1258
Date Prepared: 04/01/2009 1258

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq151.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	94	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq148.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq149.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	142	140	50 - 150	1	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	96	95	75 - 121
4-Bromofluorobenzene	93	92	75 - 120
Toluene-d8 (Surr)	105	110	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28395-1
Sdg Number: 660-28395

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Units: ug/L

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	70.9	70.2

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

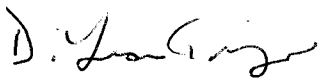
Project Number: 660-28395

TestAmerica Denver Lot #: D9C270215

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc



DiLea Griego
Project Manager

April 8, 2009

Case Narrative
Lot D9C270215

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt

Three samples were received under chain of custody on March 27, 2009. The samples were received in good condition at a temperature of 2.5°C.

The laboratory received two containers for sample EW-101A (660-28395-6). The Chain of Custody indicated three containers were submitted. Sufficient volume was available to perform the 8260B analysis requested.

GC/MS Volatiles – Method 8260B

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to analytes present above the linear calibration curve, several samples were analyzed at a dilution. The reporting limits have been adjusted relative to the dilution required.

The MS/MSD associated with QC batch 9090161 exhibited spike compound recoveries and RPD data outside the QC control limits for various compounds. In addition, a duplicate MSMSD pair was run on sample MW-19A (660-28395-1) for this same batch and exhibited spike compound recoveries outside the QC control limits for acetone. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The Initial Calibration Verification (ICV) standard associated with QC batch 9090161 exhibited a %Relative Standard Deviation (%RSD) greater than the allowed criteria for ethanol. The overall mean %RSD is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary. Associated samples were non-detect for ethanol.

The Initial Calibration Verification (ICV) standard associated with QC batch 9090161 exhibited the %Difference (%D) values greater than the allowed criteria, biased high and low, as noted below. As no detectable concentrations of these compounds are present in the associated samples, corrective action is deemed unnecessary.

carbon disulfide – low ethyl acetate – high

A Continuing Calibration Verification (CCV) standard associated with the sample in QC batch 9090161 exhibited a %Difference (%D) value, biased low, for chloromethane and biased high for Ethanol. All CCC and SPCC compounds are in control; therefore, method criteria have been met and corrective action is deemed unnecessary. Associated samples were non-detect.

No other anomalies were observed.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

EXECUTIVE SUMMARY - Detection Highlights

D9C270215

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-134A(660-28395-2) 03/24/09 10:10 002				
1,1-Dichloroethane	8.6 J	13	ug/L	SW846 8260B
cis-1,2-Dichloroethene	57	13	ug/L	SW846 8260B
1,1-Dichloroethene	48	13	ug/L	SW846 8260B
Trichloroethene	570	13	ug/L	SW846 8260B
MW-41A(660-28395-3) 03/24/09 10:06 003				
1,1-Dichloroethane	11	6.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	84	6.7	ug/L	SW846 8260B
1,1-Dichloroethene	49	6.7	ug/L	SW846 8260B
Trichloroethene	230	6.7	ug/L	SW846 8260B
MW-130A(660-28395-4) 03/24/09 08:50 004				
1,1-Dichloroethane	2.1	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	2.2	1.0	ug/L	SW846 8260B
Trichloroethene	0.34 J	1.0	ug/L	SW846 8260B
MW-253A(660-28395-5) 03/24/09 16:15 005				
1,1-Dichloroethane	17 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	110	100	ug/L	SW846 8260B
1,1-Dichloroethene	220	100	ug/L	SW846 8260B
Trichloroethene	3800	100	ug/L	SW846 8260B
EW-101A(660-28395-6) 03/24/09 12:17 006				
1,1-Dichloroethane	110	4.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.9 J	4.0	ug/L	SW846 8260B
1,1-Dichloroethene	5.6	4.0	ug/L	SW846 8260B
Tetrachloroethene	0.80 J	4.0	ug/L	SW846 8260B
Trichloroethene	16	4.0	ug/L	SW846 8260B
Trichlorotrifluoroethane	5.0 J	12	ug/L	SW846 8260B
EW-107A(660-28395-7) 03/24/09 10:45 007				
Tetrachloroethene	0.45 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D9C270215

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
EW-106A(660-28395-8) 03/24/09 13:10 008				
1,1-Dichloroethane	39	20	ug/L	SW846 8260B
cis-1,2-Dichloroethene	85	20	ug/L	SW846 8260B
1,1-Dichloroethene	54	20	ug/L	SW846 8260B
Tetrachloroethene	15 J	20	ug/L	SW846 8260B
Trichloroethene	810	20	ug/L	SW846 8260B
Trichlorotrifluoroethane	60	60	ug/L	SW846 8260B
MW-252A(660-28395-9) 03/24/09 17:33 009				
1,1-Dichloroethene	0.42 J	1.0	ug/L	SW846 8260B
Trichloroethene	12	1.0	ug/L	SW846 8260B

METHODS SUMMARY

D9C270215

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9C270215

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8260B	Hayley E. Waterland	005423

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9C270215

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K88T9	001	MW-19A(660-28395-1)	03/24/09	14:00
K88VF	002	MW-134A(660-28395-2)	03/24/09	10:10
K88VP	003	MW-41A(660-28395-3)	03/24/09	10:06
K88VR	004	MW-130A(660-28395-4)	03/24/09	08:50
K88V0	005	MW-253A(660-28395-5)	03/24/09	16:15
K88V3	006	EW-101A(660-28395-6)	03/24/09	12:17
K88V9	007	EW-107A(660-28395-7)	03/24/09	10:45
K88WC	008	EW-106A(660-28395-8)	03/24/09	13:10
K88WF	009	MW-252A(660-28395-9)	03/24/09	17:33
K88WL	010	TRIP BLANK	03/24/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9C270215

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		9090161	9090225
002	WATER	SW846 8260B		9090161	9090225
003	WATER	SW846 8260B		9090161	9090225
004	WATER	SW846 8260B		9090161	9090225
005	WATER	SW846 8260B		9090161	9090225
006	WATER	SW846 8260B		9090161	9090225
007	WATER	SW846 8260B		9090161	9090225
008	WATER	SW846 8260B		9090161	9090225
009	WATER	SW846 8260B		9090161	9090225
010	WATER	SW846 8260B		9090161	9090225

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9C270215

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: -001 through -010

Batch: 9090161

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-001
Matrix:	WATER	**Lab WorkOrder:**	K88T91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:09
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-001
Matrix:	WATER	**Lab WorkOrder:**	K88T91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:09
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-001
Matrix:	WATER	**Lab WorkOrder:**	K88T91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:09
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-001
Matrix:	WATER	**Lab WorkOrder:**	K88T91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:09
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
2037-26-5	Toluene-d8	98	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	95	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-134A(660-28395-2)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-002
Matrix:	WATER	**Lab WorkOrder:**	K88VF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:12
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	2.3	2.3	13	U
71-55-6	1,1,1-Trichloroethane	2.1	2.1	13	U
79-34-5	1,1,2,2-Tetrachloroethane	2.7	2.7	13	U
79-00-5	1,1,2-Trichloroethane	4.3	4.3	13	U
75-34-3	1,1-Dichloroethane	**8.6**	2.1	13	J
75-35-4	1,1-Dichloroethene	**48**	1.9	13	
563-58-6	1,1-Dichloropropene	2.0	2.0	13	U
87-61-6	1,2,3-Trichlorobenzene	2.4	2.4	13	U
96-18-4	1,2,3-Trichloropropane	10	10	33	U
120-82-1	1,2,4-Trichlorobenzene	4.3	4.3	13	U
95-63-6	1,2,4-Trimethylbenzene	1.9	1.9	13	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	20	20	67	U
106-93-4	1,2-Dibromoethane (EDB)	2.4	2.4	13	U
95-50-1	1,2-Dichlorobenzene	1.7	1.7	13	U
107-06-2	1,2-Dichloroethane	1.7	1.7	13	U
78-87-5	1,2-Dichloropropane	1.7	1.7	13	U
108-67-8	1,3,5-Trimethylbenzene	1.9	1.9	13	U
541-73-1	1,3-Dichlorobenzene	2.1	2.1	13	U
142-28-9	1,3-Dichloropropane	2.0	2.0	13	U
106-46-7	1,4-Dichlorobenzene	2.1	2.1	13	U
594-20-7	2,2-Dichloropropane	2.7	2.7	67	U
78-93-3	2-Butanone (MEK)	24	24	80	U
95-49-8	2-Chlorotoluene	2.3	2.3	13	U
591-78-6	2-Hexanone	19	19	67	U
106-43-4	4-Chlorotoluene	2.3	2.3	13	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-134A(660-28395-2)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-002
Matrix:	WATER	**Lab WorkOrder:**	K88VF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:12
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	2.3	2.3	13	U
108-10-1	4-Methyl-2-pentanone	14	14	67	U
67-64-1	Acetone	25	25	130	U
75-05-8	Acetonitrile	130	130	400	U
107-02-8	Acrolein	37	37	270	U
107-13-1	Acrylonitrile	19	19	270	U
107-05-1	Allyl chloride	2.3	2.3	27	U
71-43-2	Benzene	2.1	2.1	13	U
108-86-1	Bromobenzene	2.3	2.3	13	U
74-97-5	Bromochloromethane	1.3	1.3	13	U
75-27-4	Bromodichloromethane	2.3	2.3	13	U
75-25-2	Bromoform	2.5	2.5	13	U
74-83-9	Bromomethane	2.8	2.8	27	U
75-15-0	Carbon disulfide	6.0	6.0	27	U
56-23-5	Carbon tetrachloride	2.5	2.5	13	U
108-90-7	Chlorobenzene	2.3	2.3	13	U
124-48-1	Chlorodibromomethane	2.3	2.3	13	U
75-00-3	Chloroethane	5.5	5.5	27	U
67-66-3	Chloroform	2.1	2.1	13	U
74-87-3	Chloromethane	4.0	4.0	27	U
156-59-2	cis-1,2-Dichloroethene	57	2.0	13	
10061-01-5	cis-1,3-Dichloropropene	2.1	2.1	13	U
74-95-3	Dibromomethane	2.3	2.3	13	U
75-71-8	Dichlorodifluoromethane	4.1	4.1	27	U
64-17-5	Ethanol	1300	1300	4000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-134A(660-28395-2)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-002
Matrix:	WATER	**Lab WorkOrder:**	K88VF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:12
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	16	16	67	U
100-41-4	Ethylbenzene	2.1	2.1	13	U
87-68-3	Hexachlorobutadiene	1.6	1.6	13	U
67-63-0	Isopropanol	170	170	530	U
98-82-8	Isopropylbenzene	2.5	2.5	13	U
80-62-6	Methyl methacrylate	15	15	53	U
1634-04-4	Methyl tert-butyl ether	3.3	3.3	67	U
75-09-2	Methylene chloride	4.3	4.3	67	U
136777-61-2	m-Xylene & p-Xylene	4.5	4.5	27	U
91-20-3	Naphthalene	2.9	2.9	13	U
104-51-8	n-Butylbenzene	1.9	1.9	13	U
103-65-1	n-Propylbenzene	2.1	2.1	13	U
95-47-6	o-Xylene	2.5	2.5	13	U
135-98-8	sec-Butylbenzene	2.3	2.3	13	U
100-42-5	Styrene	2.3	2.3	13	U
75-65-0	tert-Butyl alcohol	51	51	670	U
98-06-6	tert-Butylbenzene	2.1	2.1	13	U
127-18-4	Tetrachloroethene	2.7	2.7	13	U
109-99-9	Tetrahydrofuran	27	27	93	U
108-88-3	Toluene	2.3	2.3	13	U
156-60-5	trans-1,2-Dichloroethene	2.0	2.0	13	U
10061-02-6	trans-1,3-Dichloropropene	2.5	2.5	40	U
79-01-6	Trichloroethene	**570**	2.1	13	
75-69-4	Trichlorofluoromethane	3.9	3.9	27	U
76-13-1	Trichlorotrifluoroethane	11	11	40	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-134A(660-28395-2)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-002
Matrix:	WATER	**Lab WorkOrder:**	K88VF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:12
Sample Aliquot:	1.5 mL	**Instrument ID:**	R2
Dilution Factor:	13.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	13	13	40	U
75-01-4	Vinyl chloride	5.3	5.3	13	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	86	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-41A(660-28395-3)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-003
Matrix:	WATER	**Lab WorkOrder:**	K88VP1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:06
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:33
Sample Aliquot:	3 mL	**Instrument ID:**	R2
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.1	1.1	6.7	U
71-55-6	1,1,1-Trichloroethane	1.1	1.1	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	1.3	6.7	U
79-00-5	1,1,2-Trichloroethane	2.1	2.1	6.7	U
75-34-3	1,1-Dichloroethane	**11**	1.1	6.7	
75-35-4	1,1-Dichloroethene	**49**	0.93	6.7	
563-58-6	1,1-Dichloropropene	1.0	1.0	6.7	U
87-61-6	1,2,3-Trichlorobenzene	1.2	1.2	6.7	U
96-18-4	1,2,3-Trichloropropane	5.1	5.1	17	U
120-82-1	1,2,4-Trichlorobenzene	2.1	2.1	6.7	U
95-63-6	1,2,4-Trimethylbenzene	0.93	0.93	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	10	10	33	U
106-93-4	1,2-Dibromoethane (EDB)	1.2	1.2	6.7	U
95-50-1	1,2-Dichlorobenzene	0.87	0.87	6.7	U
107-06-2	1,2-Dichloroethane	0.87	0.87	6.7	U
78-87-5	1,2-Dichloropropane	0.87	0.87	6.7	U
108-67-8	1,3,5-Trimethylbenzene	0.93	0.93	6.7	U
541-73-1	1,3-Dichlorobenzene	1.1	1.1	6.7	U
142-28-9	1,3-Dichloropropane	1.0	1.0	6.7	U
106-46-7	1,4-Dichlorobenzene	1.1	1.1	6.7	U
594-20-7	2,2-Dichloropropane	1.3	1.3	33	U
78-93-3	2-Butanone (MEK)	12	12	40	U
95-49-8	2-Chlorotoluene	1.1	1.1	6.7	U
591-78-6	2-Hexanone	9.3	9.3	33	U
106-43-4	4-Chlorotoluene	1.1	1.1	6.7	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-41A(660-28395-3)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-003
Matrix:	WATER	**Lab WorkOrder:**	K88VP1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:06
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:33
Sample Aliquot:	3 mL	**Instrument ID:**	R2
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	1.1	1.1	6.7	U
108-10-1	4-Methyl-2-pentanone	6.9	6.9	33	U
67-64-1	Acetone	13	13	67	U
75-05-8	Acetonitrile	64	64	200	U
107-02-8	Acrolein	19	19	130	U
107-13-1	Acrylonitrile	9.3	9.3	130	U
107-05-1	Allyl chloride	1.1	1.1	13	U
71-43-2	Benzene	1.1	1.1	6.7	U
108-86-1	Bromobenzene	1.1	1.1	6.7	U
74-97-5	Bromochloromethane	0.67	0.67	6.7	U
75-27-4	Bromodichloromethane	1.1	1.1	6.7	U
75-25-2	Bromoform	1.3	1.3	6.7	U
74-83-9	Bromomethane	1.4	1.4	13	U
75-15-0	Carbon disulfide	3.0	3.0	13	U
56-23-5	Carbon tetrachloride	1.3	1.3	6.7	U
108-90-7	Chlorobenzene	1.1	1.1	6.7	U
124-48-1	Chlorodibromomethane	1.1	1.1	6.7	U
75-00-3	Chloroethane	2.7	2.7	13	U
67-66-3	Chloroform	1.1	1.1	6.7	U
74-87-3	Chloromethane	2.0	2.0	13	U
156-59-2	cis-1,2-Dichloroethene	**84**	1.0	6.7	
10061-01-5	cis-1,3-Dichloropropene	1.1	1.1	6.7	U
74-95-3	Dibromomethane	1.1	1.1	6.7	U
75-71-8	Dichlorodifluoromethane	2.1	2.1	13	U
64-17-5	Ethanol	630	630	2000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-41A(660-28395-3)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-003
Matrix:	WATER	**Lab WorkOrder:**	K88VP1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:06
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:33
Sample Aliquot:	3 mL	**Instrument ID:**	R2
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	8.0	8.0	33	U
100-41-4	Ethylbenzene	1.1	1.1	6.7	U
87-68-3	Hexachlorobutadiene	0.80	0.80	6.7	U
67-63-0	Isopropanol	87	87	270	U
98-82-8	Isopropylbenzene	1.3	1.3	6.7	U
80-62-6	Methyl methacrylate	7.4	7.4	27	U
1634-04-4	Methyl tert-butyl ether	1.7	1.7	33	U
75-09-2	Methylene chloride	2.1	2.1	33	U
136777-61-2	m-Xylene & p-Xylene	2.3	2.3	13	U
91-20-3	Naphthalene	1.5	1.5	6.7	U
104-51-8	n-Butylbenzene	0.93	0.93	6.7	U
103-65-1	n-Propylbenzene	1.1	1.1	6.7	U
95-47-6	o-Xylene	1.3	1.3	6.7	U
135-98-8	sec-Butylbenzene	1.1	1.1	6.7	U
100-42-5	Styrene	1.1	1.1	6.7	U
75-65-0	tert-Butyl alcohol	25	25	330	U
98-06-6	tert-Butylbenzene	1.1	1.1	6.7	U
127-18-4	Tetrachloroethene	1.3	1.3	6.7	U
109-99-9	Tetrahydrofuran	14	14	47	U
108-88-3	Toluene	1.1	1.1	6.7	U
156-60-5	trans-1,2-Dichloroethene	1.0	1.0	6.7	U
10061-02-6	trans-1,3-Dichloropropene	1.3	1.3	20	U
79-01-6	Trichloroethene	**230**	1.1	6.7	
75-69-4	Trichlorofluoromethane	1.9	1.9	13	U
76-13-1	Trichlorotrifluoroethane	5.3	5.3	20	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-41A(660-28395-3)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-003
Matrix:	WATER	**Lab WorkOrder:**	K88VP1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:06
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:33
Sample Aliquot:	3 mL	**Instrument ID:**	R2
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	6.3	6.3	20	U
75-01-4	Vinyl chloride	2.7	2.7	6.7	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	87	77	119	
460-00-4	4-Bromofluorobenzene	98	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-130A(660-28395-4)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-004
Matrix:	WATER	**Lab WorkOrder:**	K88VR1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 08:50
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:54
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**2.1**	0.16	1.0	
75-35-4	1,1-Dichloroethene	**2.2**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-130A(660-28395-4)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-004
Matrix:	WATER	**Lab WorkOrder:**	K88VR1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 08:50
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:54
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-130A(660-28395-4)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-004
Matrix:	WATER	**Lab WorkOrder:**	K88VR1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 08:50
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:54
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**0.34**	0.16	1.0	J
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-130A(660-28395-4)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-004
Matrix:	WATER	**Lab WorkOrder:**	K88VR1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 08:50
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 15:54
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	94	70	127	
2037-26-5	Toluene-d8	98	80	125	
1868-53-7	Dibromofluoromethane	86	77	119	
460-00-4	4-Bromofluorobenzene	95	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-253A(660-28395-5)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-005
Matrix:	WATER	**Lab WorkOrder:**	K88V01AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 16:15
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:14
Sample Aliquot:	0.2 mL	**Instrument ID:**	R2
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	17	17	100	U
71-55-6	1,1,1-Trichloroethane	16	16	100	U
79-34-5	1,1,2,2-Tetrachloroethane	20	20	100	U
79-00-5	1,1,2-Trichloroethane	32	32	100	U
75-34-3	1,1-Dichloroethane	**17**	16	100	J
75-35-4	1,1-Dichloroethene	**220**	14	100	
563-58-6	1,1-Dichloropropene	15	15	100	U
87-61-6	1,2,3-Trichlorobenzene	18	18	100	U
96-18-4	1,2,3-Trichloropropane	77	77	250	U
120-82-1	1,2,4-Trichlorobenzene	32	32	100	U
95-63-6	1,2,4-Trimethylbenzene	14	14	100	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	150	150	500	U
106-93-4	1,2-Dibromoethane (EDB)	18	18	100	U
95-50-1	1,2-Dichlorobenzene	13	13	100	U
107-06-2	1,2-Dichloroethane	13	13	100	U
78-87-5	1,2-Dichloropropane	13	13	100	U
108-67-8	1,3,5-Trimethylbenzene	14	14	100	U
541-73-1	1,3-Dichlorobenzene	16	16	100	U
142-28-9	1,3-Dichloropropane	15	15	100	U
106-46-7	1,4-Dichlorobenzene	16	16	100	U
594-20-7	2,2-Dichloropropane	20	20	500	U
78-93-3	2-Butanone (MEK)	180	180	600	U
95-49-8	2-Chlorotoluene	17	17	100	U
591-78-6	2-Hexanone	140	140	500	U
106-43-4	4-Chlorotoluene	17	17	100	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-253A(660-28395-5)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-005
Matrix:	WATER	**Lab WorkOrder:**	K88V01AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 16:15
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:14
Sample Aliquot:	0.2 mL	**Instrument ID:**	R2
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	17	17	100	U
108-10-1	4-Methyl-2-pentanone	100	100	500	U
67-64-1	Acetone	190	190	1000	U
75-05-8	Acetonitrile	960	960	3000	U
107-02-8	Acrolein	280	280	2000	U
107-13-1	Acrylonitrile	140	140	2000	U
107-05-1	Allyl chloride	17	17	200	U
71-43-2	Benzene	16	16	100	U
108-86-1	Bromobenzene	17	17	100	U
74-97-5	Bromochloromethane	10	10	100	U
75-27-4	Bromodichloromethane	17	17	100	U
75-25-2	Bromoform	19	19	100	U
74-83-9	Bromomethane	21	21	200	U
75-15-0	Carbon disulfide	45	45	200	U
56-23-5	Carbon tetrachloride	19	19	100	U
108-90-7	Chlorobenzene	17	17	100	U
124-48-1	Chlorodibromomethane	17	17	100	U
75-00-3	Chloroethane	41	41	200	U
67-66-3	Chloroform	16	16	100	U
74-87-3	Chloromethane	30	30	200	U
156-59-2	cis-1,2-Dichloroethene	**110**	15	100	
10061-01-5	cis-1,3-Dichloropropene	16	16	100	U
74-95-3	Dibromomethane	17	17	100	U
75-71-8	Dichlorodifluoromethane	31	31	200	U
64-17-5	Ethanol	9400	9400	30000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-253A(660-28395-5)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-005
Matrix:	WATER	**Lab WorkOrder:**	K88V01AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 16:15
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:14
Sample Aliquot:	0.2 mL	**Instrument ID:**	R2
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	120	120	500	U
100-41-4	Ethylbenzene	16	16	100	U
87-68-3	Hexachlorobutadiene	12	12	100	U
67-63-0	Isopropanol	1300	1300	4000	U
98-82-8	Isopropylbenzene	19	19	100	U
80-62-6	Methyl methacrylate	110	110	400	U
1634-04-4	Methyl tert-butyl ether	25	25	500	U
75-09-2	Methylene chloride	32	32	500	U
136777-61-2	m-Xylene & p-Xylene	34	34	200	U
91-20-3	Naphthalene	22	22	100	U
104-51-8	n-Butylbenzene	14	14	100	U
103-65-1	n-Propylbenzene	16	16	100	U
95-47-6	o-Xylene	19	19	100	U
135-98-8	sec-Butylbenzene	17	17	100	U
100-42-5	Styrene	17	17	100	U
75-65-0	tert-Butyl alcohol	380	380	5000	U
98-06-6	tert-Butylbenzene	16	16	100	U
127-18-4	Tetrachloroethene	20	20	100	U
109-99-9	Tetrahydrofuran	200	200	700	U
108-88-3	Toluene	17	17	100	U
156-60-5	trans-1,2-Dichloroethene	15	15	100	U
10061-02-6	trans-1,3-Dichloropropene	19	19	300	U
79-01-6	Trichloroethene	**3800**	16	100	
75-69-4	Trichlorofluoromethane	29	29	200	U
76-13-1	Trichlorotrifluoroethane	79	79	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-253A(660-28395-5)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-005
Matrix:	WATER	**Lab WorkOrder:**	K88V01AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 16:15
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:14
Sample Aliquot:	0.2 mL	**Instrument ID:**	R2
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	94	94	300	U
75-01-4	Vinyl chloride	40	40	100	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	70	127	
2037-26-5	Toluene-d8	98	80	125	
1868-53-7	Dibromofluoromethane	85	77	119	
460-00-4	4-Bromofluorobenzene	93	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-101A(660-28395-6)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-006
Matrix:	WATER	**Lab WorkOrder:**	K88V31AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 12:17
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:35
Sample Aliquot:	5 mL	**Instrument ID:**	R2
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.68	0.68	4.0	U
71-55-6	1,1,1-Trichloroethane	0.64	0.64	4.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.80	0.80	4.0	U
79-00-5	1,1,2-Trichloroethane	1.3	1.3	4.0	U
75-34-3	1,1-Dichloroethane	**110**	0.64	4.0	
75-35-4	1,1-Dichloroethene	**5.6**	0.56	4.0	
563-58-6	1,1-Dichloropropene	0.60	0.60	4.0	U
87-61-6	1,2,3-Trichlorobenzene	0.72	0.72	4.0	U
96-18-4	1,2,3-Trichloropropane	3.1	3.1	10	U
120-82-1	1,2,4-Trichlorobenzene	1.3	1.3	4.0	U
95-63-6	1,2,4-Trimethylbenzene	0.56	0.56	4.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	6.0	6.0	20	U
106-93-4	1,2-Dibromoethane (EDB)	0.72	0.72	4.0	U
95-50-1	1,2-Dichlorobenzene	0.52	0.52	4.0	U
107-06-2	1,2-Dichloroethane	0.52	0.52	4.0	U
78-87-5	1,2-Dichloropropane	0.52	0.52	4.0	U
108-67-8	1,3,5-Trimethylbenzene	0.56	0.56	4.0	U
541-73-1	1,3-Dichlorobenzene	0.64	0.64	4.0	U
142-28-9	1,3-Dichloropropane	0.60	0.60	4.0	U
106-46-7	1,4-Dichlorobenzene	0.64	0.64	4.0	U
594-20-7	2,2-Dichloropropane	0.80	0.80	20	U
78-93-3	2-Butanone (MEK)	7.3	7.3	24	U
95-49-8	2-Chlorotoluene	0.68	0.68	4.0	U
591-78-6	2-Hexanone	5.6	5.6	20	U
106-43-4	4-Chlorotoluene	0.68	0.68	4.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-101A(660-28395-6)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-006
Matrix:	WATER	**Lab WorkOrder:**	K88V31AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 12:17
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:35
Sample Aliquot:	5 mL	**Instrument ID:**	R2
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.68	0.68	4.0	U
108-10-1	4-Methyl-2-pentanone	4.2	4.2	20	U
67-64-1	Acetone	7.6	7.6	40	U
75-05-8	Acetonitrile	38	38	120	U
107-02-8	Acrolein	11	11	80	U
107-13-1	Acrylonitrile	5.6	5.6	80	U
107-05-1	Allyl chloride	0.68	0.68	8.0	U
71-43-2	Benzene	0.64	0.64	4.0	U
108-86-1	Bromobenzene	0.68	0.68	4.0	U
74-97-5	Bromochloromethane	0.40	0.40	4.0	U
75-27-4	Bromodichloromethane	0.68	0.68	4.0	U
75-25-2	Bromoform	0.76	0.76	4.0	U
74-83-9	Bromomethane	0.84	0.84	8.0	U
75-15-0	Carbon disulfide	1.8	1.8	8.0	U
56-23-5	Carbon tetrachloride	0.76	0.76	4.0	U
108-90-7	Chlorobenzene	0.68	0.68	4.0	U
124-48-1	Chlorodibromomethane	0.68	0.68	4.0	U
75-00-3	Chloroethane	1.6	1.6	8.0	U
67-66-3	Chloroform	0.64	0.64	4.0	U
74-87-3	Chloromethane	1.2	1.2	8.0	U
156-59-2	cis-1,2-Dichloroethene	**2.9**	0.60	4.0	J
10061-01-5	cis-1,3-Dichloropropene	0.64	0.64	4.0	U
74-95-3	Dibromomethane	0.68	0.68	4.0	U
75-71-8	Dichlorodifluoromethane	1.2	1.2	8.0	U
64-17-5	Ethanol	380	380	1200	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-101A(660-28395-6)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-006
Matrix:	WATER	**Lab WorkOrder:**	K88V31AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 12:17
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:35
Sample Aliquot:	5 mL	**Instrument ID:**	R2
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	4.8	4.8	20	U
100-41-4	Ethylbenzene	0.64	0.64	4.0	U
87-68-3	Hexachlorobutadiene	0.48	0.48	4.0	U
67-63-0	Isopropanol	52	52	160	U
98-82-8	Isopropylbenzene	0.76	0.76	4.0	U
80-62-6	Methyl methacrylate	4.4	4.4	16	U
1634-04-4	Methyl tert-butyl ether	1.0	1.0	20	U
75-09-2	Methylene chloride	1.3	1.3	20	U
136777-61-2	m-Xylene & p-Xylene	1.4	1.4	8.0	U
91-20-3	Naphthalene	0.88	0.88	4.0	U
104-51-8	n-Butylbenzene	0.56	0.56	4.0	U
103-65-1	n-Propylbenzene	0.64	0.64	4.0	U
95-47-6	o-Xylene	0.76	0.76	4.0	U
135-98-8	sec-Butylbenzene	0.68	0.68	4.0	U
100-42-5	Styrene	0.68	0.68	4.0	U
75-65-0	tert-Butyl alcohol	15	15	200	U
98-06-6	tert-Butylbenzene	0.64	0.64	4.0	U
127-18-4	Tetrachloroethene	**0.80**	0.80	4.0	J
109-99-9	Tetrahydrofuran	8.1	8.1	28	U
108-88-3	Toluene	0.68	0.68	4.0	U
156-60-5	trans-1,2-Dichloroethene	0.60	0.60	4.0	U
10061-02-6	trans-1,3-Dichloropropene	0.76	0.76	12	U
79-01-6	Trichloroethene	**16**	0.64	4.0	
75-69-4	Trichlorofluoromethane	1.2	1.2	8.0	U
76-13-1	Trichlorotrifluoroethane	**5.0**	3.2	12	J

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-101A(660-28395-6)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-006
Matrix:	WATER	**Lab WorkOrder:**	K88V31AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 12:17
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:35
Sample Aliquot:	5 mL	**Instrument ID:**	R2
Dilution Factor:	4		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	3.8	3.8	12	U
75-01-4	Vinyl chloride	1.6	1.6	4.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
2037-26-5	Toluene-d8	98	80	125	
1868-53-7	Dibromofluoromethane	86	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-107A(660-28395-7)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-007
Matrix:	WATER	**Lab WorkOrder:**	K88V91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:45
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:56
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-107A(660-28395-7)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-007
Matrix:	WATER	**Lab WorkOrder:**	K88V91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:45
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:56
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-107A(660-28395-7)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-007
Matrix:	WATER	**Lab WorkOrder:**	K88V91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:45
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:56
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**0.45**	0.20	1.0	J
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**1.1**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-107A(660-28395-7)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-007
Matrix:	WATER	**Lab WorkOrder:**	K88V91AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 10:45
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 16:56
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
2037-26-5	Toluene-d8	97	80	125	
1868-53-7	Dibromofluoromethane	85	77	119	
460-00-4	4-Bromofluorobenzene	93	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-106A(660-28395-8)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-008
Matrix:	WATER	**Lab WorkOrder:**	K88WC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 13:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:17
Sample Aliquot:	1 mL	**Instrument ID:**	R2
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	3.4	3.4	20	U
71-55-6	1,1,1-Trichloroethane	3.2	3.2	20	U
79-34-5	1,1,2,2-Tetrachloroethane	4.0	4.0	20	U
79-00-5	1,1,2-Trichloroethane	6.4	6.4	20	U
75-34-3	1,1-Dichloroethane	**39**	3.2	20	
75-35-4	1,1-Dichloroethene	**54**	2.8	20	
563-58-6	1,1-Dichloropropene	3.0	3.0	20	U
87-61-6	1,2,3-Trichlorobenzene	3.6	3.6	20	U
96-18-4	1,2,3-Trichloropropane	15	15	50	U
120-82-1	1,2,4-Trichlorobenzene	6.4	6.4	20	U
95-63-6	1,2,4-Trimethylbenzene	2.8	2.8	20	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	30	30	100	U
106-93-4	1,2-Dibromoethane (EDB)	3.6	3.6	20	U
95-50-1	1,2-Dichlorobenzene	2.6	2.6	20	U
107-06-2	1,2-Dichloroethane	2.6	2.6	20	U
78-87-5	1,2-Dichloropropane	2.6	2.6	20	U
108-67-8	1,3,5-Trimethylbenzene	2.8	2.8	20	U
541-73-1	1,3-Dichlorobenzene	3.2	3.2	20	U
142-28-9	1,3-Dichloropropane	3.0	3.0	20	U
106-46-7	1,4-Dichlorobenzene	3.2	3.2	20	U
594-20-7	2,2-Dichloropropane	4.0	4.0	100	U
78-93-3	2-Butanone (MEK)	37	37	120	U
95-49-8	2-Chlorotoluene	3.4	3.4	20	U
591-78-6	2-Hexanone	28	28	100	U
106-43-4	4-Chlorotoluene	3.4	3.4	20	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-106A(660-28395-8)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-008
Matrix:	WATER	**Lab WorkOrder:**	K88WC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 13:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:17
Sample Aliquot:	1 mL	**Instrument ID:**	R2
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	3.4	3.4	20	U
108-10-1	4-Methyl-2-pentanone	21	21	100	U
67-64-1	Acetone	38	38	200	U
75-05-8	Acetonitrile	190	190	600	U
107-02-8	Acrolein	56	56	400	U
107-13-1	Acrylonitrile	28	28	400	U
107-05-1	Allyl chloride	3.4	3.4	40	U
71-43-2	Benzene	3.2	3.2	20	U
108-86-1	Bromobenzene	3.4	3.4	20	U
74-97-5	Bromochloromethane	2.0	2.0	20	U
75-27-4	Bromodichloromethane	3.4	3.4	20	U
75-25-2	Bromoform	3.8	3.8	20	U
74-83-9	Bromomethane	4.2	4.2	40	U
75-15-0	Carbon disulfide	9.0	9.0	40	U
56-23-5	Carbon tetrachloride	3.8	3.8	20	U
108-90-7	Chlorobenzene	3.4	3.4	20	U
124-48-1	Chlorodibromomethane	3.4	3.4	20	U
75-00-3	Chloroethane	8.2	8.2	40	U
67-66-3	Chloroform	3.2	3.2	20	U
74-87-3	Chloromethane	6.0	6.0	40	U
156-59-2	cis-1,2-Dichloroethene	**85**	3.0	20	
10061-01-5	cis-1,3-Dichloropropene	3.2	3.2	20	U
74-95-3	Dibromomethane	3.4	3.4	20	U
75-71-8	Dichlorodifluoromethane	6.2	6.2	40	U
64-17-5	Ethanol	1900	1900	6000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-106A(660-28395-8)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-008
Matrix:	WATER	**Lab WorkOrder:**	K88WC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 13:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:17
Sample Aliquot:	1 mL	**Instrument ID:**	R2
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	24	24	100	U
100-41-4	Ethylbenzene	3.2	3.2	20	U
87-68-3	Hexachlorobutadiene	2.4	2.4	20	U
67-63-0	Isopropanol	260	260	800	U
98-82-8	Isopropylbenzene	3.8	3.8	20	U
80-62-6	Methyl methacrylate	22	22	80	U
1634-04-4	Methyl tert-butyl ether	5.0	5.0	100	U
75-09-2	Methylene chloride	6.4	6.4	100	U
136777-61-2	m-Xylene & p-Xylene	6.8	6.8	40	U
91-20-3	Naphthalene	4.4	4.4	20	U
104-51-8	n-Butylbenzene	2.8	2.8	20	U
103-65-1	n-Propylbenzene	3.2	3.2	20	U
95-47-6	o-Xylene	3.8	3.8	20	U
135-98-8	sec-Butylbenzene	3.4	3.4	20	U
100-42-5	Styrene	3.4	3.4	20	U
75-65-0	tert-Butyl alcohol	76	76	1000	U
98-06-6	tert-Butylbenzene	3.2	3.2	20	U
127-18-4	Tetrachloroethene	**15**	4.0	20	J
109-99-9	Tetrahydrofuran	41	41	140	U
108-88-3	Toluene	3.4	3.4	20	U
156-60-5	trans-1,2-Dichloroethene	3.0	3.0	20	U
10061-02-6	trans-1,3-Dichloropropene	3.8	3.8	60	U
79-01-6	Trichloroethene	**810**	3.2	20	
75-69-4	Trichlorofluoromethane	5.8	5.8	40	U
76-13-1	Trichlorotrifluoroethane	**60**	16	60	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-106A(660-28395-8)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-008
Matrix:	WATER	**Lab WorkOrder:**	K88WC1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 13:10
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:17
Sample Aliquot:	1 mL	**Instrument ID:**	R2
Dilution Factor:	20		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	19	19	60	U
75-01-4	Vinyl chloride	8.0	8.0	20	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	70	127	
2037-26-5	Toluene-d8	103	80	125	
1868-53-7	Dibromofluoromethane	91	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-252A(660-28395-9)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-009
Matrix:	WATER	**Lab WorkOrder:**	K88WF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 17:33
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:38
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	**0.42**	0.14	1.0	J
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-252A(660-28395-9)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-009
Matrix:	WATER	**Lab WorkOrder:**	K88WF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 17:33
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:38
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-252A(660-28395-9)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-009
Matrix:	WATER	**Lab WorkOrder:**	K88WF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 17:33
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:38
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**12**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-252A(660-28395-9)
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-009
Matrix:	WATER	**Lab WorkOrder:**	K88WF1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 17:33
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:38
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	88	77	119	
460-00-4	4-Bromofluorobenzene	93	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-010
Matrix:	WATER	**Lab WorkOrder:**	K88WL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 00:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-010
Matrix:	WATER	**Lab WorkOrder:**	K88WL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 00:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-010
Matrix:	WATER	**Lab WorkOrder:**	K88WL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 00:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	TRIP BLANK
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C270215-010
Matrix:	WATER	**Lab WorkOrder:**	K88WL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 00:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 17:59
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	88	77	119	
460-00-4	4-Bromofluorobenzene	93	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 13:07
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 13:07
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 13:07
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
2037-26-5	Toluene-d8	96	80	125	
1868-53-7	Dibromofluoromethane	88	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25RI9H
Lot/SDG Number: D9C270215 **QC Batch ID:** 9090161

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
MW-19A(660-28395-1)	K88T91AA	96	95	87	98					0
MW-19A(660-28395-1) MS	K88T91AC	101	100	89	97					0
MW-19A(660-28395-1) MSD	K88T91AD	96	100	87	99					0
MW-253A(660-28395-5)	K88V01AA	97	93	85	98					0
EW-101A(660-28395-6)	K88V31AA	99	96	86	98					0
EW-107A(660-28395-7)	K88V91AA	96	93	85	97					0
MW-134A(660-28395-2)	K88VF1AA	96	96	86	100					0
MW-41A(660-28395-3)	K88VP1AA	97	98	87	100					0
MW-130A(660-28395-4)	K88VR1AA	94	95	86	98					0
EW-106A(660-28395-8)	K88WC1AA	104	96	91	103					0
MW-252A(660-28395-9)	K88WF1AA	101	93	88	100					0
TRIP BLANK	K88WL1AA	101	93	88	100					0
LAB MS/MSD MS	K8T9M1AD	105	99	89	99					0
LAB MS/MSD MSD	K8T9M1AE	104	100	89	100					0
INTRA-LAB BLANK	K9DJV1AA	96	96	88	96					0
CHECK SAMPLE	K9DJV1AC	95	97	88	98					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C310000-161C
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 12:46
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.63	93		72 - 120
Acetone	10.0	9.66	97		48 - 130
Ethylbenzene	5.00	4.37	87		78 - 120
Trichlorofluoromethane	5.00	4.81	96		63 - 135
Hexachlorobutadiene	5.00	5.49	110		73 - 123
2-Hexanone	10.0	9.42	94		57 - 121
Isopropylbenzene	5.00	3.98	80		71 - 120
4-Isopropyltoluene	5.00	5.05	101		76 - 120
Methylene chloride	5.00	4.37	87		71 - 120
4-Methyl-2-pentanone	10.0	9.65	96		65 - 120
Naphthalene	5.00	4.64	93		62 - 121
Benzene	5.00	4.37	87		77 - 120
2-Pentanone	10.0	11.8	118		42 - 120
n-Propylbenzene	5.00	4.90	98		76 - 120
Styrene	5.00	4.22	84		77 - 120
1,1,1,2-Tetrachloroethane	5.00	4.43	89		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.81	96		73 - 120
Tetrachloroethene	5.00	4.40	88		77 - 120
Toluene	5.00	4.46	89		73 - 120
1,2,3-Trichlorobenzene	5.00	5.41	108		66 - 123
1,2,4-Trichlorobenzene	5.00	5.47	109		73 - 121
1,1,1-Trichloroethane	5.00	4.27	85		78 - 120
1,1,2-Trichloroethane	5.00	4.93	99		76 - 120
Trichloroethene	5.00	4.32	86		78 - 122
1,2,3-Trichloropropane	5.00	4.36	87		72 - 120
1,2,4-Trimethylbenzene	5.00	4.29	86		77 - 120
1,3,5-Trimethylbenzene	5.00	4.30	86		77 - 120
Vinyl acetate	5.00	5.19	104		63 - 124
Vinyl chloride	5.00	4.75	95		49 - 136

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C310000-161C
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 12:46
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	4.47	89		77 - 120
Xylenes (total)	15.0	13.3	88		77 - 120
Methyl tert-butyl ether	10.0	10.7	107		58 - 120
m-Xylene & p-Xylene	10.0	8.79	88		78 - 120
Bromobenzene	5.00	4.41	88		75 - 120
Bromochloromethane	5.00	4.77	95		78 - 120
Bromodichloromethane	5.00	4.60	92		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.94	99		65 - 120
1,2-Dibromoethane (EDB)	5.00	4.79	96		77 - 120
2-Butanone (MEK)	10.0	10.4	104		57 - 120
Bromoform	5.00	5.25	105		74 - 121
Bromomethane	5.00	5.50	110		42 - 154
n-Butylbenzene	5.00	4.51	90		76 - 120
sec-Butylbenzene	5.00	5.10	102		80 - 120
tert-Butylbenzene	5.00	4.94	99		76 - 120
Carbon disulfide	5.00	3.47	69		56 - 120
Carbon tetrachloride	5.00	4.12	82		80 - 120
Chlorobenzene	5.00	4.44	89		78 - 120
Chlorodibromomethane	5.00	4.81	96		76 - 120
Chloroethane	5.00	4.93	99		51 - 133
2-Chloroethyl vinyl ether	5.00	3.64	73		17 - 150
Chloroform	5.00	4.47	89		78 - 120
Chloromethane	5.00	4.30	86		46 - 142
2-Chlorotoluene	5.00	4.40	88		76 - 120
4-Chlorotoluene	5.00	4.26	85		78 - 120
Dibromomethane	5.00	4.94	99		77 - 120
1,2-Dichlorobenzene	5.00	4.66	93		76 - 120
1,3-Dichlorobenzene	5.00	4.58	92		75 - 120
1,4-Dichlorobenzene	5.00	4.64	93		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C310000-161C
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 12:46
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	4.65	93		56 - 140
1,1-Dichloroethane	5.00	4.49	90		77 - 120
1,2-Dichloroethane	5.00	4.60	92		74 - 120
1,1-Dichloroethene	5.00	4.63	93		68 - 133
cis-1,2-Dichloroethene	5.00	4.39	88		75 - 120
trans-1,2-Dichloroethene	5.00	4.40	88		80 - 120
1,2-Dichloroethene (total)	10.0	8.79	88		78 - 120
1,2-Dichloropropane	5.00	4.56	91		76 - 120
1,3-Dichloropropane	5.00	4.64	93		75 - 120
2,2-Dichloropropane	5.00	4.49	90		72 - 128
1,1-Dichloropropene	5.00	4.13	83		75 - 120
cis-1,3-Dichloropropene	5.00	4.56	91		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	95	70	127	
2037-26-5	Toluene-d8	98	80	125	
1868-53-7	Dibromofluoromethane	88	77	119	
460-00-4	4-Bromofluorobenzene	97	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C270215	**MS Lab Sample ID:**	D9C190290-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K8T9M1AD
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 18:40
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.13		83		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	4.87		97		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.11		82		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.26		85		76 - 120
1,1-Dichloroethane	5.00	0.16	U	4.91		98		77 - 120
1,1-Dichloroethene	5.00	0.14	U	4.67		93		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.24		85		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.66		93		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	3.72		74		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.83		97		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	3.33		67	a	77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	0.81	U	4.06		81		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.03		81		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.18		84		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.56		91		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	8.59		86		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.42		88		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	3.88		78		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.23		85		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.21		84		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.18		84		77 - 120
2,2-Dichloropropane	5.00	0.20	U	4.40		88		72 - 128
2-Butanone (MEK)	10.0	1.8	U	9.85		99		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	17 - 150
2-Chlorotoluene	5.00	0.17	U	4.09		82		76 - 120
2-Hexanone	10.0	1.4	U	8.99		90		57 - 121
2-Pentanone	10.0	0.82	U	11.6		116		42 - 120
4-Chlorotoluene	5.00	0.17	U	4.00		80		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.75		95		76 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C270215	**MS Lab Sample ID:**	D9C190290-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K8T9M1AD
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 18:40
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
4-Methyl-2-pentanone	10.0	1.0	U	9.26		93		65 - 120
Acetone	10.0	1.9	U	9.21		92		48 - 130
Benzene	5.00	0.16	U	4.32		86		77 - 120
Bromobenzene	5.00	0.17	U	3.86		77		75 - 120
Bromochloromethane	5.00	0.10	U	4.18		84		78 - 120
Bromodichloromethane	5.00	0.17	U	4.76		95		78 - 120
Bromoform	5.00	0.19	U	4.45		89		74 - 121
Bromomethane	5.00	0.21	U	5.95		119		42 - 154
Carbon disulfide	5.00	0.45	U	3.77		75		56 - 120
Carbon tetrachloride	5.00	0.19	U	4.29		86		80 - 120
Chlorobenzene	5.00	0.17	U	4.16		83		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.30		86		76 - 120
Chloroethane	5.00	0.41	U	5.66		113		51 - 133
Chloroform	5.00	0.65	J	5.53		98		78 - 120
Chloromethane	5.00	0.30	U	5.20		104		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.27		85		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.18		84		76 - 120
Dibromomethane	5.00	0.17	U	4.36		87		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	5.01		100		56 - 140
Ethylbenzene	5.00	0.16	U	4.22		84		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.32		106		73 - 123
Isopropylbenzene	5.00	0.19	U	3.71		74		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	8.40		84		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	9.81		98		58 - 120
Methylene chloride	5.00	0.32	U	4.38		88		71 - 120
n-Butylbenzene	5.00	0.14	U	4.47		89		76 - 120
n-Propylbenzene	5.00	0.16	U	4.56		91		76 - 120
Naphthalene	5.00	0.22	U	3.85		77		62 - 121
o-Xylene	5.00	0.19	U	4.23		85		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C270215	**MS Lab Sample ID:**	D9C190290-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K8T9M1AD
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 18:40
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
sec-Butylbenzene	5.00	0.17	U	4.90		98		80 - 120
Styrene	5.00	0.17	U	0.477		9.5	a	77 - 120
tert-Butylbenzene	5.00	0.16	U	4.65		93		76 - 120
Tetrachloroethene	5.00	0.50	J	4.85		87		77 - 120
Toluene	5.00	0.17	U	4.32		86		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.32		86		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.16		83		72 - 120
Trichloroethene	5.00	0.35	J	4.61		85		78 - 122
Trichlorofluoromethane	5.00	0.29	U	5.59		112		63 - 135
Vinyl acetate	5.00	0.94	U	2.04		41	a	63 - 124
Vinyl chloride	5.00	0.40	U	5.58		112		49 - 136
Xylenes (total)	15.0	0.19	U	12.6		84		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
460-00-4	4-Bromofluorobenzene	99	78	118	
1868-53-7	Dibromofluoromethane	89	77	119	
2037-26-5	Toluene-d8	99	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**MS Lab Sample ID:**	D9C270215-001S
Matrix:	WATER	**MS Lab WorkOrder:**	K88T91AC
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.45		89		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	4.89		98		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.53		91		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.86		97		76 - 120
1,1-Dichloroethane	5.00	0.16	U	5.12		102		77 - 120
1,1-Dichloroethene	5.00	0.14	U	5.10		102		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.71		94		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.93		99		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	4.02		80		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.98		100		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	4.19		84		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	1.5	U	4.49		90		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.39		88		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.41		88		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.92		98		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	9.50		95		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.78		96		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	4.24		85		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.39		88		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.55		91		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.37		87		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.13		103		72 - 128
2-Butanone (MEK)	10.0	1.8	U	11.0		110		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	3.61		72		17 - 150
2-Chlorotoluene	5.00	0.17	U	4.28		86		76 - 120
2-Hexanone	10.0	1.4	U	9.93		99		57 - 121
2-Pentanone	10.0	0.82	U	11.9		119		42 - 120
4-Chlorotoluene	5.00	0.17	U	4.16		83		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.96		99		76 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**MS Lab Sample ID:**	D9C270215-001S
Matrix:	WATER	**MS Lab WorkOrder:**	K88T91AC
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
4-Methyl-2-pentanone	10.0	1.0	U	10.1		101		65 - 120
Acetone	10.0	1.9	U	13.6		136	a	48 - 130
Benzene	5.00	0.16	U	4.73		95		77 - 120
Bromobenzene	5.00	0.17	U	4.16		83		75 - 120
Bromochloromethane	5.00	0.10	U	4.69		94		78 - 120
Bromodichloromethane	5.00	0.17	U	4.89		98		78 - 120
Bromoform	5.00	0.19	U	4.89		98		74 - 121
Bromomethane	5.00	0.21	U	6.22		124		42 - 154
Carbon disulfide	5.00	0.45	U	4.01		80		56 - 120
Carbon tetrachloride	5.00	0.19	U	4.67		93		80 - 120
Chlorobenzene	5.00	0.17	U	4.43		89		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.62		92		76 - 120
Chloroethane	5.00	0.41	U	5.85		117		51 - 133
Chloroform	5.00	0.16	U	5.02		100		78 - 120
Chloromethane	5.00	0.30	U	5.20		104		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.70		94		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.55		91		76 - 120
Dibromomethane	5.00	0.17	U	4.82		96		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	5.24		105		56 - 140
Ethylbenzene	5.00	0.16	U	4.43		89		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.23		105		73 - 123
Isopropylbenzene	5.00	0.19	U	3.95		79		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	8.90		89		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	10.6		106		58 - 120
Methylene chloride	5.00	0.32	U	4.66		93		71 - 120
n-Butylbenzene	5.00	0.14	U	4.47		89		76 - 120
n-Propylbenzene	5.00	0.16	U	4.85		97		76 - 120
Naphthalene	5.00	0.22	U	4.32		86		62 - 121
o-Xylene	5.00	0.19	U	4.58		92		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**MS Lab Sample ID:**	D9C270215-001S
Matrix:	WATER	**MS Lab WorkOrder:**	K88T91AC
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
sec-Butylbenzene	5.00	0.17	U	5.07		101		80 - 120
Styrene	5.00	0.17	U	4.23		85		77 - 120
tert-Butylbenzene	5.00	0.16	U	4.95		99		76 - 120
Tetrachloroethene	5.00	0.20	U	4.66		93		77 - 120
Toluene	5.00	0.17	U	4.70		94		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.81		96		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.79		96		72 - 120
Trichloroethene	5.00	0.16	U	4.57		91		78 - 122
Trichlorofluoromethane	5.00	0.29	U	5.55		111		63 - 135
Vinyl acetate	5.00	0.94	U	5.30		106		63 - 124
Vinyl chloride	5.00	0.40	U	5.74		115		49 - 136
Xylenes (total)	15.0	0.19	U	13.5		90		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
460-00-4	4-Bromofluorobenzene	100	78	118	
1868-53-7	Dibromofluoromethane	89	77	119	
2037-26-5	Toluene-d8	97	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C270215	**MSD Lab Sample ID:**	D9C190290-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8T9M1AE
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 19:01
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.21		84		2.0		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.74		95		2.7		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.43		89		7.4		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.49		90		5.3		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	4.99		100		1.7		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.90		98		4.7		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.11		82		3.1		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	4.24		85		9.4		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	3.75		75		0.80		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	4.22		84		13		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	3.35		67	a	0.39		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	0.81	U	4.19		84		3.2		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.23		85		4.9		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	3.90		78		6.9		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.68		94		2.6		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	8.78		88		2.1		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.51		90		2.1		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	3.37		67	a	14		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	3.73		75		12		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.54		91		7.6		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	3.80		76	a	9.6		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	4.46		89		1.4		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	10.2		102		3.3		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	0.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	3.57		71	a	13		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C270215	**MSD Lab Sample ID:**	D9C190290-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8T9M1AE
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 19:01
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	9.75		98		8.2		57 - 121	25
2-Pentanone	10.0	0.82	U	11.5		115		1.4		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	3.43		69	a	15		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	3.75		75	a	24	p	76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	9.71		97		4.7		65 - 120	22
Acetone	10.0	1.9	U	12.3		123		29		48 - 130	41
Benzene	5.00	0.16	U	4.37		87		1.1		77 - 120	20
Bromobenzene	5.00	0.17	U	3.67		73	a	5.0		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.43		89		6.0		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.84		97		1.5		78 - 120	20
Bromoform	5.00	0.19	U	4.69		94		5.3		74 - 121	21
Bromomethane	5.00	0.21	U	6.73		135		12		42 - 154	24
Carbon disulfide	5.00	0.45	U	3.71		74		1.5		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	4.18		84		2.6		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.01		80		3.8		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.47		89		3.9		76 - 120	20
Chloroethane	5.00	0.41	U	5.90		118		4.2		51 - 133	25
Chloroform	5.00	0.65	J	5.63		100		1.9		78 - 120	20
Chloromethane	5.00	0.30	U	5.41		108		4.1		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.35		87		1.8		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.32		86		3.4		76 - 120	20
Dibromomethane	5.00	0.17	U	4.47		89		2.5		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	5.78		116		14		56 - 140	24
Ethylbenzene	5.00	0.16	U	3.75		75	a	12		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	4.20		84		24		73 - 123	25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C270215	**MSD Lab Sample ID:**	D9C190290-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8T9M1AE
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 19:01
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	3.16		63	a	16		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	7.47		75	a	12		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	10.4		104		6.1		58 - 120	21
Methylene chloride	5.00	0.32	U	4.57		91		4.3		71 - 120	20
n-Butylbenzene	5.00	0.14	U	3.34		67	a	29	p	76 - 120	21
n-Propylbenzene	5.00	0.16	U	3.72		74	a	20		76 - 120	20
Naphthalene	5.00	0.22	U	3.93		79		2.3		62 - 121	32
o-Xylene	5.00	0.19	U	3.97		79		6.3		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	3.86		77	a	24	p	80 - 120	21
Styrene	5.00	0.17	U	1.50		30	a	103	p	77 - 120	20
tert-Butylbenzene	5.00	0.16	U	3.90		78		17		76 - 120	21
Tetrachloroethene	5.00	0.50	J	4.36		77		11		77 - 120	20
Toluene	5.00	0.17	U	4.10		82		5.1		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.42		88		2.4		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.26		85		2.4		72 - 120	20
Trichloroethene	5.00	0.35	J	4.49		83		2.6		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	5.63		113		0.76		63 - 135	20
Vinyl acetate	5.00	0.94	U	3.06		61	a	40	p	63 - 124	24
Vinyl chloride	5.00	0.40	U	5.88		118		5.2		49 - 136	24
Xylenes (total)	15.0	0.19	U	11.4		76	a	9.9		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	70	127	
460-00-4	4-Bromofluorobenzene	100	78	118	
1868-53-7	Dibromofluoromethane	89	77	119	
2037-26-5	Toluene-d8	100	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**MSD Lab Sample ID:**	D9C270215-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	K88T91AD
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.43		89		0.42		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.51		90		8.1		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.49		90		0.81		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.59		92		5.7		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	4.88		98		4.8		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.76		95		6.8		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.35		87		7.8		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	5.04		101		2.2		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	4.02		80		0.020		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	5.01		100		0.64		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	4.14		83		1.1		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	1.5	U	4.44		89		0.92		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.40		88		0.19		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.42		88		0.33		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.68		94		4.9		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	9.13		91		4.0		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.38		88		8.8		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	4.12		82		2.9		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.33		87		1.4		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.53		91		0.37		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.47		89		2.2		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	4.75		95		7.8		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	10.1		101		8.3		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	3.43		69		5.1		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	4.25		85		0.80		76 - 120	20

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**MSD Lab Sample ID:**	D9C270215-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	K88T91AD
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	9.54		95		4.0		57 - 121	25
2-Pentanone	10.0	0.82	U	11.4		114		4.5		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.11		82		1.3		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	4.67		93		5.9		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	9.26		93		9.0		65 - 120	22
Acetone	10.0	1.9	U	13.6		136	a	0.17		48 - 130	41
Benzene	5.00	0.16	U	4.53		91		4.2		77 - 120	20
Bromobenzene	5.00	0.17	U	4.11		82		1.3		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.61		92		1.7		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.74		95		3.0		78 - 120	20
Bromoform	5.00	0.19	U	4.86		97		0.75		74 - 121	21
Bromomethane	5.00	0.21	U	5.80		116		7.0		42 - 154	24
Carbon disulfide	5.00	0.45	U	3.73		75		7.3		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	4.28		86		8.6		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.34		87		2.0		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.66		93		0.78		76 - 120	20
Chloroethane	5.00	0.41	U	5.40		108		8.2		51 - 133	25
Chloroform	5.00	0.16	U	4.78		96		4.9		78 - 120	20
Chloromethane	5.00	0.30	U	4.82		96		7.5		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.52		90		3.8		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.55		91		0.050		76 - 120	20
Dibromomethane	5.00	0.17	U	4.64		93		3.8		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	4.92		98		6.4		56 - 140	24
Ethylbenzene	5.00	0.16	U	4.32		86		2.6		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	4.89		98		6.8		73 - 123	25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-19A(660-28395-1)
Lot/SDG Number:	D9C270215	**MSD Lab Sample ID:**	D9C270215-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	K88T91AD
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	3.81		76		3.6		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	8.61		86		3.3		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	10.1		101		4.7		58 - 120	21
Methylene chloride	5.00	0.32	U	4.53		91		2.8		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.14		83		7.7		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.56		91		6.2		76 - 120	20
Naphthalene	5.00	0.22	U	4.51		90		4.4		62 - 121	32
o-Xylene	5.00	0.19	U	4.50		90		1.6		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	4.80		96		5.6		80 - 120	21
Styrene	5.00	0.17	U	4.21		84		0.64		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	4.72		94		4.7		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.43		89		5.1		77 - 120	20
Toluene	5.00	0.17	U	4.53		91		3.8		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.61		92		4.2		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.53		91		5.6		72 - 120	20
Trichloroethene	5.00	0.16	U	4.39		88		4.0		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	4.99		100		10		63 - 135	20
Vinyl acetate	5.00	0.94	U	5.01		100		5.8		63 - 124	24
Vinyl chloride	5.00	0.40	U	5.37		107		6.6		49 - 136	24
Xylenes (total)	15.0	0.19	U	13.1		87		2.7		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
460-00-4	4-Bromofluorobenzene	100	78	118	
1868-53-7	Dibromofluoromethane	87	77	119	
2037-26-5	Toluene-d8	99	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	RR7263.D
Lot/SDG Number:	D9C270215	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab Work Order:**	K9DJV1AA
Analysis Method:	8260B	**Date/Time Extracted:**	03/30/09 11:15
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	03/30/09 13:07
QC Batch ID:	9090161	**Instrument ID:**	R2

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
MW-19A(660-28395-1)	K88T91AA	RR7263.D	03/30/09	14:09
MW-19A(660-28395-1) MS	K88T91AC S	RR7264.D	03/30/09	14:30
MW-19A(660-28395-1) MSD	K88T91AD D	RR7265.D	03/30/09	14:51
MW-253A(660-28395-5)	K88V01AA	RR7269.D	03/30/09	16:14
EW-101A(660-28395-6)	K88V31AA	RR7270.D	03/30/09	16:35
EW-107A(660-28395-7)	K88V91AA	RR7271.D	03/30/09	16:56
MW-134A(660-28395-2)	K88VF1AA	RR7266.D	03/30/09	15:12
MW-41A(660-28395-3)	K88VP1AA	RR7267.D	03/30/09	15:33
MW-130A(660-28395-4)	K88VR1AA	RR7268.D	03/30/09	15:54
EW-106A(660-28395-8)	K88WC1AA	RR7272.D	03/30/09	17:17
MW-252A(660-28395-9)	K88WF1AA	RR7273.D	03/30/09	17:38
TRIP BLANK	K88WL1AA	RR7274.D	03/30/09	17:59
LAB MS/MSD MS	K8T9M1AD S	RR7276.D	03/30/09	18:40
LAB MS/MSD MSD	K8T9M1AE D	RR7277.D	03/30/09	19:01
CHECK SAMPLE	K9DJV1AC C	RR7259.D	03/30/09	12:46

Serial Number 12233

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil Gas Parameter

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location: Savannah & Denver
Phone:
Fax:
660-28395

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil Gas Parameter	B003055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thelman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B (Savannah)	REQUIRED ANALYSIS: Volatiles (Denver)	PRESERVATIVE: HCl	PRESERVATIVE: None	REMARKS
3/24/09	1400	MW-19A	G	X				3	3			
	1010	MW-134A						3	3			
	1006	MW-41A						3	3			
	0850	MW-130A						3	3			
	1615	MW-253A						3	3			
	1217	EW-101A						3	3			
	1045	EW-107A						3	3			
	1310	EW-106A						3	3			
	1733	MW-252A						3	3			
		Trip Blank						3	3			Added per client NG 3-26-09

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1500
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340	Amanda Hanson	3/25/09	1500

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-25-09	1500	YES ○ NO ○		660-28395	3.1°C cw-07	

TAL8240-660 (1207)

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28395-1
SDG Number: 660-28395

Login Number: 28395
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	one of the unpreserved vials for EW-101A was received empty
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28395-1
SDG Number: 660-28395

Login Number: 28395
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/27/09 12:31 PM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	SEE COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

ANALYTICAL REPORT

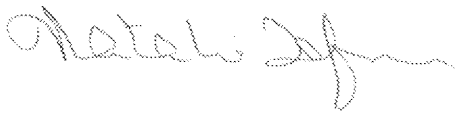
Job Number: 660-28426-1

SDG Number: 660-28426

Job Description: Tallevast-Soil Gas Parameters

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/13/2009 10:16 AM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/13/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28426-1	MW-8DA	Water	03/25/2009 1440	03/26/2009 1350
660-28426-2	MW-8SA	Water	03/25/2009 1545	03/26/2009 1350
660-28426-3	EW-102A	Water	03/25/2009 1039	03/26/2009 1350

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Client Sample ID: MW-8DA

Lab Sample ID: 660-28426-1
Client Matrix: Water

Date Sampled: 03/25/2009 1440
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1731
Date Prepared: 04/01/2009 1731

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0218.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	96	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	105	75 - 120

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Client Sample ID: MW-8SA

Lab Sample ID: 660-28426-2
Client Matrix: Water

Date Sampled: 03/25/2009 1545
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1752
Date Prepared: 04/01/2009 1752

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0219.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	95	75 - 121
4-Bromofluorobenzene	89	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Client Sample ID: EW-102A

Lab Sample ID: 660-28426-3
Client Matrix: Water

Date Sampled: 03/25/2009 1039
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1814
Date Prepared: 04/01/2009 1814

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0220.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	90	75 - 120
Toluene-d8 (Surr)	106	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28426-1	MW-8DA	96	91	105
660-28426-2	MW-8SA	95	89	104
660-28426-3	EW-102A	100	90	106
MB 680-134118/10		94	91	103
LCS 680-134118/8		96	93	105
LCSD 680-134118/9		95	92	110

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Method Blank - Batch: 680-134118

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134118/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1258
Date Prepared: 04/01/2009 1258

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq151.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	94	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq148.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq149.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	142	140	50 - 150	1	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	96	95	75 - 121
4-Bromofluorobenzene	93	92	75 - 120
Toluene-d8 (Surr)	105	110	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28426-1
Sdg Number: 660-28426

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Units: ug/L

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	70.9	70.2

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

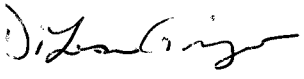
Project Number: 660-28426

TestAmerica Denver Lot #: D9C280184

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc



DiLea Griego
Project Manager

April 6, 2009

R625-EDC-001214-0
4955 Yarrow Street, Arvada, CO 80002 tel 303 736 0100 fax 303 431 7171 www.testamericainc.com

Case Narrative
Lot D9C280184

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt
Three samples were received under chain of custody on March 28, 2009. The samples were received in good condition at a temperature of 1.2°C.

GC/MS Volatiles – Method 8260B
The MS/MSD associated with QC batch 9090161 exhibited spike compound recoveries and RPD data outside the QC control limits for various compounds. In addition, a duplicate MSMSD pair was run for this same batch and exhibited spike compound recoveries outside the QC control limits for acetone. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The Initial Calibration Verification (ICV) standard associated with QC batch 9090161 exhibited a %Relative Standard Deviation (%RSD) greater than the allowed criteria for ethanol. The overall mean %RSD is within control limits; therefore, method criteria have been met and corrective action is deemed unnecessary. Associated samples were non-detect for ethanol.

The Initial Calibration Verification (ICV) standard associated with QC batch 9090161 exhibited the %Difference (%D) values greater than the allowed criteria, biased high and low, as noted below. As no detectable concentrations of these compounds are present in the associated samples, corrective action is deemed unnecessary.

carbon disulfide – low ethyl acetate – high

A Continuing Calibration Verification (CCV) standard associated with the sample in QC batch 9090161 exhibited a %Difference (%D) value, biased low, for chloromethane. All CCC and SPCC compounds are in control; therefore, method criteria have been met and corrective action is deemed unnecessary. Associated samples were non-detect for chloromethane.

A Continuing Calibration Verification (CCV) standard associated with samples in QC batch 9090161 exhibited a %Difference (%D) value, biased high, for ethanol. All CCC and SPCC compounds are in control; therefore, method criteria have been met and corrective action is deemed unnecessary. Associated samples were non-detect for ethanol.

No other anomalies were observed.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9C280184

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: 001-003

Batch: 9090161

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8DA(660-28426-1)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-001
Matrix:	WATER	**Lab WorkOrder:**	K894E1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 14:40
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 20:45
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8DA(660-28426-1)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-001
Matrix:	WATER	**Lab WorkOrder:**	K894E1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 14:40
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 20:45
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8DA(660-28426-1)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-001
Matrix:	WATER	**Lab WorkOrder:**	K894E1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 14:40
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 20:45
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8DA(660-28426-1)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-001
Matrix:	WATER	**Lab WorkOrder:**	K894E1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 14:40
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 20:45
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	106	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	89	77	119	
460-00-4	4-Bromofluorobenzene	93	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8SA(660-28426-2)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-002
Matrix:	WATER	**Lab WorkOrder:**	K894H1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 15:45
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:06
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**15**	0.16	1.0	
75-35-4	1,1-Dichloroethene	**56**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8SA(660-28426-2)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-002
Matrix:	WATER	**Lab WorkOrder:**	K894H1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 15:45
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:06
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	**0.72**	0.45	2.0	J
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8SA(660-28426-2)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-002
Matrix:	WATER	**Lab WorkOrder:**	K894H1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 15:45
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:06
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**0.49**	0.16	1.0	J
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-8SA(660-28426-2)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-002
Matrix:	WATER	**Lab WorkOrder:**	K894H1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 15:45
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:06
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	100	80	125	
1868-53-7	Dibromofluoromethane	89	77	119	
460-00-4	4-Bromofluorobenzene	94	78	118	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-102A(660-28426-3)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-003
Matrix:	WATER	**Lab WorkOrder:**	K894L1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 10:39
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:47
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-102A(660-28426-3)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-003
Matrix:	WATER	**Lab WorkOrder:**	K894L1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 10:39
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:47
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-102A(660-28426-3)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-003
Matrix:	WATER	**Lab WorkOrder:**	K894L1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 10:39
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:47
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-102A(660-28426-3)
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C280184-003
Matrix:	WATER	**Lab WorkOrder:**	K894L1AA
% Moisture:	N/A	**Date/Time Collected:**	03/25/09 10:39
Basis:	Wet	**Date/Time Received:**	03/28/09 08:30
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 21:47
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	108	70	127	
2037-26-5	Toluene-d8	99	80	125	
1868-53-7	Dibromofluoromethane	90	77	119	
460-00-4	4-Bromofluorobenzene	95	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 13:07
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 13:07
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 13:07
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
2037-26-5	Toluene-d8	96	80	125	
1868-53-7	Dibromofluoromethane	88	77	119	
460-00-4	4-Bromofluorobenzene	96	78	118	

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25RI9H

Lot/SDG Number: D9C280184 **QC Batch ID:** 9090161

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
LAB MS/MSD MS	K88T91AC	101	100	89	97					0
LAB MS/MSD MSD	K88T91AD	96	100	87	99					0
MW-8DA(660-28426-1)	K894E1AA	106	93	89	100					0
MW-8SA(660-28426-2)	K894H1AA	105	94	89	100					0
EW-102A(660-28426-3)	K894L1AA	108	95	90	99					0
LAB MS/MSD MS	K8T9M1AD	105	99	89	99					0
LAB MS/MSD MSD	K8T9M1AE	104	100	89	100					0
INTRA-LAB BLANK	K9DJV1AA	96	96	88	96					0
CHECK SAMPLE	K9DJV1AC	95	97	88	98					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C310000-161C
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 12:46
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.63	93		72 - 120
Acetone	10.0	9.66	97		48 - 130
Ethylbenzene	5.00	4.37	87		78 - 120
Trichlorofluoromethane	5.00	4.81	96		63 - 135
Hexachlorobutadiene	5.00	5.49	110		73 - 123
2-Hexanone	10.0	9.42	94		57 - 121
Isopropylbenzene	5.00	3.98	80		71 - 120
4-Isopropyltoluene	5.00	5.05	101		76 - 120
Methylene chloride	5.00	4.37	87		71 - 120
4-Methyl-2-pentanone	10.0	9.65	96		65 - 120
Naphthalene	5.00	4.64	93		62 - 121
Benzene	5.00	4.37	87		77 - 120
2-Pentanone	10.0	11.8	118		42 - 120
n-Propylbenzene	5.00	4.90	98		76 - 120
Styrene	5.00	4.22	84		77 - 120
1,1,1,2-Tetrachloroethane	5.00	4.43	89		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.81	96		73 - 120
Tetrachloroethene	5.00	4.40	88		77 - 120
Toluene	5.00	4.46	89		73 - 120
1,2,3-Trichlorobenzene	5.00	5.41	108		66 - 123
1,2,4-Trichlorobenzene	5.00	5.47	109		73 - 121
1,1,1-Trichloroethane	5.00	4.27	85		78 - 120
1,1,2-Trichloroethane	5.00	4.93	99		76 - 120
Trichloroethene	5.00	4.32	86		78 - 122
1,2,3-Trichloropropane	5.00	4.36	87		72 - 120
1,2,4-Trimethylbenzene	5.00	4.29	86		77 - 120
1,3,5-Trimethylbenzene	5.00	4.30	86		77 - 120
Vinyl acetate	5.00	5.19	104		63 - 124
Vinyl chloride	5.00	4.75	95		49 - 136

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C310000-161C
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 12:46
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	4.47	89		77 - 120
Xylenes (total)	15.0	13.3	88		77 - 120
Methyl tert-butyl ether	10.0	10.7	107		58 - 120
m-Xylene & p-Xylene	10.0	8.79	88		78 - 120
Bromobenzene	5.00	4.41	88		75 - 120
Bromochloromethane	5.00	4.77	95		78 - 120
Bromodichloromethane	5.00	4.60	92		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.94	99		65 - 120
1,2-Dibromoethane (EDB)	5.00	4.79	96		77 - 120
2-Butanone (MEK)	10.0	10.4	104		57 - 120
Bromoform	5.00	5.25	105		74 - 121
Bromomethane	5.00	5.50	110		42 - 154
n-Butylbenzene	5.00	4.51	90		76 - 120
sec-Butylbenzene	5.00	5.10	102		80 - 120
tert-Butylbenzene	5.00	4.94	99		76 - 120
Carbon disulfide	5.00	3.47	69		56 - 120
Carbon tetrachloride	5.00	4.12	82		80 - 120
Chlorobenzene	5.00	4.44	89		78 - 120
Chlorodibromomethane	5.00	4.81	96		76 - 120
Chloroethane	5.00	4.93	99		51 - 133
2-Chloroethyl vinyl ether	5.00	3.64	73		17 - 150
Chloroform	5.00	4.47	89		78 - 120
Chloromethane	5.00	4.30	86		46 - 142
2-Chlorotoluene	5.00	4.40	88		76 - 120
4-Chlorotoluene	5.00	4.26	85		78 - 120
Dibromomethane	5.00	4.94	99		77 - 120
1,2-Dichlorobenzene	5.00	4.66	93		76 - 120
1,3-Dichlorobenzene	5.00	4.58	92		75 - 120
1,4-Dichlorobenzene	5.00	4.64	93		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C310000-161C
Matrix:	WATER	**Lab WorkOrder:**	K9DJV1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 12:46
Sample Aliquot:	20 mL	**Instrument ID:**	R2
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	4.65	93		56 - 140
1,1-Dichloroethane	5.00	4.49	90		77 - 120
1,2-Dichloroethane	5.00	4.60	92		74 - 120
1,1-Dichloroethene	5.00	4.63	93		68 - 133
cis-1,2-Dichloroethene	5.00	4.39	88		75 - 120
trans-1,2-Dichloroethene	5.00	4.40	88		80 - 120
1,2-Dichloroethene (total)	10.0	8.79	88		78 - 120
1,2-Dichloropropane	5.00	4.56	91		76 - 120
1,3-Dichloropropane	5.00	4.64	93		75 - 120
2,2-Dichloropropane	5.00	4.49	90		72 - 128
1,1-Dichloropropene	5.00	4.13	83		75 - 120
cis-1,3-Dichloropropene	5.00	4.56	91		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	95	70	127	
2037-26-5	Toluene-d8	98	80	125	
1868-53-7	Dibromofluoromethane	88	77	119	
460-00-4	4-Bromofluorobenzene	97	78	118	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MS Lab Sample ID:**	D9C190290-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K8T9M1AD
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 18:40
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.13		83		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	4.87		97		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.11		82		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.26		85		76 - 120
1,1-Dichloroethane	5.00	0.16	U	4.91		98		77 - 120
1,1-Dichloroethene	5.00	0.14	U	4.67		93		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.24		85		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.66		93		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	3.72		74		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.83		97		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	3.33		67	a	77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	0.81	U	4.06		81		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.03		81		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.18		84		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.56		91		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	8.59		86		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.42		88		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	3.88		78		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.23		85		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.21		84		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.18		84		77 - 120
2,2-Dichloropropane	5.00	0.20	U	4.40		88		72 - 128
2-Butanone (MEK)	10.0	1.8	U	9.85		99		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	17 - 150
2-Chlorotoluene	5.00	0.17	U	4.09		82		76 - 120
2-Hexanone	10.0	1.4	U	8.99		90		57 - 121
2-Pentanone	10.0	0.82	U	11.6		116		42 - 120
4-Chlorotoluene	5.00	0.17	U	4.00		80		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.75		95		76 - 120

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MS Lab Sample ID:**	D9C190290-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K8T9M1AD
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 18:40
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
4-Methyl-2-pentanone	10.0	1.0	U	9.26		93		65 - 120
Acetone	10.0	1.9	U	9.21		92		48 - 130
Benzene	5.00	0.16	U	4.32		86		77 - 120
Bromobenzene	5.00	0.17	U	3.86		77		75 - 120
Bromochloromethane	5.00	0.10	U	4.18		84		78 - 120
Bromodichloromethane	5.00	0.17	U	4.76		95		78 - 120
Bromoform	5.00	0.19	U	4.45		89		74 - 121
Bromomethane	5.00	0.21	U	5.95		119		42 - 154
Carbon disulfide	5.00	0.45	U	3.77		75		56 - 120
Carbon tetrachloride	5.00	0.19	U	4.29		86		80 - 120
Chlorobenzene	5.00	0.17	U	4.16		83		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.30		86		76 - 120
Chloroethane	5.00	0.41	U	5.66		113		51 - 133
Chloroform	5.00	0.65	J	5.53		98		78 - 120
Chloromethane	5.00	0.30	U	5.20		104		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.27		85		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.18		84		76 - 120
Dibromomethane	5.00	0.17	U	4.36		87		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	5.01		100		56 - 140
Ethylbenzene	5.00	0.16	U	4.22		84		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.32		106		73 - 123
Isopropylbenzene	5.00	0.19	U	3.71		74		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	8.40		84		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	9.81		98		58 - 120
Methylene chloride	5.00	0.32	U	4.38		88		71 - 120
n-Butylbenzene	5.00	0.14	U	4.47		89		76 - 120
n-Propylbenzene	5.00	0.16	U	4.56		91		76 - 120
Naphthalene	5.00	0.22	U	3.85		77		62 - 121
o-Xylene	5.00	0.19	U	4.23		85		77 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MS Lab Sample ID:**	D9C190290-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K8T9M1AD
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 18:40
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
sec-Butylbenzene	5.00	0.17	U	4.90		98		80 - 120
Styrene	5.00	0.17	U	0.477		9.5	a	77 - 120
tert-Butylbenzene	5.00	0.16	U	4.65		93		76 - 120
Tetrachloroethene	5.00	0.50	J	4.85		87		77 - 120
Toluene	5.00	0.17	U	4.32		86		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.32		86		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.16		83		72 - 120
Trichloroethene	5.00	0.35	J	4.61		85		78 - 122
Trichlorofluoromethane	5.00	0.29	U	5.59		112		63 - 135
Vinyl acetate	5.00	0.94	U	2.04		41	a	63 - 124
Vinyl chloride	5.00	0.40	U	5.58		112		49 - 136
Xylenes (total)	15.0	0.19	U	12.6		84		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
460-00-4	4-Bromofluorobenzene	99	78	118	
1868-53-7	Dibromofluoromethane	89	77	119	
2037-26-5	Toluene-d8	99	80	125	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MS Lab Sample ID:**	D9C270215-001S
Matrix:	WATER	**MS Lab WorkOrder:**	K88T91AC
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.45		89		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	4.89		98		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.53		91		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.86		97		76 - 120
1,1-Dichloroethane	5.00	0.16	U	5.12		102		77 - 120
1,1-Dichloroethene	5.00	0.14	U	5.10		102		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.71		94		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.93		99		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	4.02		80		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.98		100		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	4.19		84		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	1.5	U	4.49		90		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.39		88		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.41		88		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.92		98		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	9.50		95		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.78		96		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	4.24		85		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.39		88		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.55		91		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.37		87		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.13		103		72 - 128
2-Butanone (MEK)	10.0	1.8	U	11.0		110		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	3.61		72		17 - 150
2-Chlorotoluene	5.00	0.17	U	4.28		86		76 - 120
2-Hexanone	10.0	1.4	U	9.93		99		57 - 121
2-Pentanone	10.0	0.82	U	11.9		119		42 - 120
4-Chlorotoluene	5.00	0.17	U	4.16		83		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.96		99		76 - 120

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MS Lab Sample ID:**	D9C270215-001S
Matrix:	WATER	**MS Lab WorkOrder:**	K88T91AC
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
4-Methyl-2-pentanone	10.0	1.0	U	10.1		101		65 - 120
Acetone	10.0	1.9	U	13.6		136	a	48 - 130
Benzene	5.00	0.16	U	4.73		95		77 - 120
Bromobenzene	5.00	0.17	U	4.16		83		75 - 120
Bromochloromethane	5.00	0.10	U	4.69		94		78 - 120
Bromodichloromethane	5.00	0.17	U	4.89		98		78 - 120
Bromoform	5.00	0.19	U	4.89		98		74 - 121
Bromomethane	5.00	0.21	U	6.22		124		42 - 154
Carbon disulfide	5.00	0.45	U	4.01		80		56 - 120
Carbon tetrachloride	5.00	0.19	U	4.67		93		80 - 120
Chlorobenzene	5.00	0.17	U	4.43		89		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.62		92		76 - 120
Chloroethane	5.00	0.41	U	5.85		117		51 - 133
Chloroform	5.00	0.16	U	5.02		100		78 - 120
Chloromethane	5.00	0.30	U	5.20		104		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.70		94		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.55		91		76 - 120
Dibromomethane	5.00	0.17	U	4.82		96		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	5.24		105		56 - 140
Ethylbenzene	5.00	0.16	U	4.43		89		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.23		105		73 - 123
Isopropylbenzene	5.00	0.19	U	3.95		79		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	8.90		89		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	10.6		106		58 - 120
Methylene chloride	5.00	0.32	U	4.66		93		71 - 120
n-Butylbenzene	5.00	0.14	U	4.47		89		76 - 120
n-Propylbenzene	5.00	0.16	U	4.85		97		76 - 120
Naphthalene	5.00	0.22	U	4.32		86		62 - 121
o-Xylene	5.00	0.19	U	4.58		92		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MS Lab Sample ID:**	D9C270215-001S
Matrix:	WATER	**MS Lab WorkOrder:**	K88T91AC
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:30
MS Sample Aliquot:	20 mL	**Instrument ID:**	R2
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
sec-Butylbenzene	5.00	0.17	U	5.07		101		80 - 120
Styrene	5.00	0.17	U	4.23		85		77 - 120
tert-Butylbenzene	5.00	0.16	U	4.95		99		76 - 120
Tetrachloroethene	5.00	0.20	U	4.66		93		77 - 120
Toluene	5.00	0.17	U	4.70		94		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	4.81		96		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.79		96		72 - 120
Trichloroethene	5.00	0.16	U	4.57		91		78 - 122
Trichlorofluoromethane	5.00	0.29	U	5.55		111		63 - 135
Vinyl acetate	5.00	0.94	U	5.30		106		63 - 124
Vinyl chloride	5.00	0.40	U	5.74		115		49 - 136
Xylenes (total)	15.0	0.19	U	13.5		90		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
460-00-4	4-Bromofluorobenzene	100	78	118	
1868-53-7	Dibromofluoromethane	89	77	119	
2037-26-5	Toluene-d8	97	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MSD Lab Sample ID:**	D9C190290-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8T9M1AE
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 19:01
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.21		84		2.0		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.74		95		2.7		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.43		89		7.4		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.49		90		5.3		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	4.99		100		1.7		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.90		98		4.7		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.11		82		3.1		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	4.24		85		9.4		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	3.75		75		0.80		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	4.22		84		13		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	3.35		67	a	0.39		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	0.81	U	4.19		84		3.2		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.23		85		4.9		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	3.90		78		6.9		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.68		94		2.6		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	8.78		88		2.1		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.51		90		2.1		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	3.37		67	a	14		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	3.73		75		12		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.54		91		7.6		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	3.80		76	a	9.6		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	4.46		89		1.4		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	10.2		102		3.3		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	0.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	3.57		71	a	13		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MSD Lab Sample ID:**	D9C190290-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8T9M1AE
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 19:01
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	9.75		98		8.2		57 - 121	25
2-Pentanone	10.0	0.82	U	11.5		115		1.4		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	3.43		69	a	15		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	3.75		75	a	24	p	76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	9.71		97		4.7		65 - 120	22
Acetone	10.0	1.9	U	12.3		123		29		48 - 130	41
Benzene	5.00	0.16	U	4.37		87		1.1		77 - 120	20
Bromobenzene	5.00	0.17	U	3.67		73	a	5.0		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.43		89		6.0		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.84		97		1.5		78 - 120	20
Bromoform	5.00	0.19	U	4.69		94		5.3		74 - 121	21
Bromomethane	5.00	0.21	U	6.73		135		12		42 - 154	24
Carbon disulfide	5.00	0.45	U	3.71		74		1.5		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	4.18		84		2.6		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.01		80		3.8		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.47		89		3.9		76 - 120	20
Chloroethane	5.00	0.41	U	5.90		118		4.2		51 - 133	25
Chloroform	5.00	0.65	J	5.63		100		1.9		78 - 120	20
Chloromethane	5.00	0.30	U	5.41		108		4.1		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.35		87		1.8		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.32		86		3.4		76 - 120	20
Dibromomethane	5.00	0.17	U	4.47		89		2.5		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	5.78		116		14		56 - 140	24
Ethylbenzene	5.00	0.16	U	3.75		75	a	12		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	4.20		84		24		73 - 123	25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MSD Lab Sample ID:**	D9C190290-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8T9M1AE
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 11:44
Basis:	Wet	**Date/Time Received:**	03/19/09 15:45
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 19:01
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	3.16		63	a	16		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	7.47		75	a	12		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	10.4		104		6.1		58 - 120	21
Methylene chloride	5.00	0.32	U	4.57		91		4.3		71 - 120	20
n-Butylbenzene	5.00	0.14	U	3.34		67	a	29	p	76 - 120	21
n-Propylbenzene	5.00	0.16	U	3.72		74	a	20		76 - 120	20
Naphthalene	5.00	0.22	U	3.93		79		2.3		62 - 121	32
o-Xylene	5.00	0.19	U	3.97		79		6.3		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	3.86		77	a	24	p	80 - 120	21
Styrene	5.00	0.17	U	1.50		30	a	103	p	77 - 120	20
tert-Butylbenzene	5.00	0.16	U	3.90		78		17		76 - 120	21
Tetrachloroethene	5.00	0.50	J	4.36		77		11		77 - 120	20
Toluene	5.00	0.17	U	4.10		82		5.1		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.42		88		2.4		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.26		85		2.4		72 - 120	20
Trichloroethene	5.00	0.35	J	4.49		83		2.6		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	5.63		113		0.76		63 - 135	20
Vinyl acetate	5.00	0.94	U	3.06		61	a	40	p	63 - 124	24
Vinyl chloride	5.00	0.40	U	5.88		118		5.2		49 - 136	24
Xylenes (total)	15.0	0.19	U	11.4		76	a	9.9		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	70	127	
460-00-4	4-Bromofluorobenzene	100	78	118	
1868-53-7	Dibromofluoromethane	89	77	119	
2037-26-5	Toluene-d8	100	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MSD Lab Sample ID:**	D9C270215-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	K88T91AD
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.43		89		0.42		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.51		90		8.1		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.49		90		0.81		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.59		92		5.7		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	4.88		98		4.8		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	4.76		95		6.8		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.35		87		7.8		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	5.04		101		2.2		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	4.02		80		0.020		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	5.01		100		0.64		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	4.14		83		1.1		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	1.5	U	4.44		89		0.92		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.40		88		0.19		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.42		88		0.33		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.68		94		4.9		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	9.13		91		4.0		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.38		88		8.8		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	4.12		82		2.9		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.33		87		1.4		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.53		91		0.37		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.47		89		2.2		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	4.75		95		7.8		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	10.1		101		8.3		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	3.43		69		5.1		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	4.25		85		0.80		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MSD Lab Sample ID:**	D9C270215-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	K88T91AD
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	9.54		95		4.0		57 - 121	25
2-Pentanone	10.0	0.82	U	11.4		114		4.5		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.11		82		1.3		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	4.67		93		5.9		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	9.26		93		9.0		65 - 120	22
Acetone	10.0	1.9	U	13.6		136	a	0.17		48 - 130	41
Benzene	5.00	0.16	U	4.53		91		4.2		77 - 120	20
Bromobenzene	5.00	0.17	U	4.11		82		1.3		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.61		92		1.7		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.74		95		3.0		78 - 120	20
Bromoform	5.00	0.19	U	4.86		97		0.75		74 - 121	21
Bromomethane	5.00	0.21	U	5.80		116		7.0		42 - 154	24
Carbon disulfide	5.00	0.45	U	3.73		75		7.3		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	4.28		86		8.6		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.34		87		2.0		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.66		93		0.78		76 - 120	20
Chloroethane	5.00	0.41	U	5.40		108		8.2		51 - 133	25
Chloroform	5.00	0.16	U	4.78		96		4.9		78 - 120	20
Chloromethane	5.00	0.30	U	4.82		96		7.5		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.52		90		3.8		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.55		91		0.050		76 - 120	20
Dibromomethane	5.00	0.17	U	4.64		93		3.8		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	4.92		98		6.4		56 - 140	24
Ethylbenzene	5.00	0.16	U	4.32		86		2.6		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	4.89		98		6.8		73 - 123	25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C280184	**MSD Lab Sample ID:**	D9C270215-001D
Matrix:	WATER	**MSD Lab WorkOrder:**	K88T91AD
% Moisture:	N/A	**Date/Time Collected:**	03/24/09 14:00
Basis:	Wet	**Date/Time Received:**	03/27/09 12:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	03/30/09 11:15
QC Batch ID:	9090161	**Date/Time Analyzed:**	03/30/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R2
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	3.81		76		3.6		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	8.61		86		3.3		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	10.1		101		4.7		58 - 120	21
Methylene chloride	5.00	0.32	U	4.53		91		2.8		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.14		83		7.7		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.56		91		6.2		76 - 120	20
Naphthalene	5.00	0.22	U	4.51		90		4.4		62 - 121	32
o-Xylene	5.00	0.19	U	4.50		90		1.6		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	4.80		96		5.6		80 - 120	21
Styrene	5.00	0.17	U	4.21		84		0.64		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	4.72		94		4.7		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.43		89		5.1		77 - 120	20
Toluene	5.00	0.17	U	4.53		91		3.8		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	4.61		92		4.2		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.53		91		5.6		72 - 120	20
Trichloroethene	5.00	0.16	U	4.39		88		4.0		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	4.99		100		10		63 - 135	20
Vinyl acetate	5.00	0.94	U	5.01		100		5.8		63 - 124	24
Vinyl chloride	5.00	0.40	U	5.37		107		6.6		49 - 136	24
Xylenes (total)	15.0	0.19	U	13.1		87		2.7		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
460-00-4	4-Bromofluorobenzene	100	78	118	
1868-53-7	Dibromofluoromethane	87	77	119	
2037-26-5	Toluene-d8	99	80	125	

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	RR7264.D
Lot/SDG Number:	D9C280184	**Lab Sample ID:**	D9C310000-161B
Matrix:	WATER	**Lab Work Order:**	K9DJV1AA
Analysis Method:	8260B	**Date/Time Extracted:**	03/30/09 11:15
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	03/30/09 13:07
QC Batch ID:	9090161	**Instrument ID:**	R2

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
LAB MS/MSD MS	K88T91AC S	RR7264.D	03/30/09	14:30
LAB MS/MSD MSD	K88T91AD D	RR7265.D	03/30/09	14:51
MW-8DA(660-28426-1)	K894E1AA	RR7282.D	03/30/09	20:45
MW-8SA(660-28426-2)	K894H1AA	RR7283.D	03/30/09	21:06
EW-102A(660-28426-3)	K894L1AA	RR7285.D	03/30/09	21:47
LAB MS/MSD MS	K8T9M1AD S	RR7276.D	03/30/09	18:40
LAB MS/MSD MSD	K8T9M1AE D	RR7277.D	03/30/09	19:01
CHECK SAMPLE	K9DJV1AC C	RR7259.D	03/30/09	12:46

Serial Number 12239

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil Gas Parameter

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location: Savannah & Denver
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil Gas Parameter	B003855.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thelman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B (Savannah)	REQUIRED ANALYSIS: Volatiles (Denver)	REMARKS
		PRESERVATIVE						HCl	None	
								NUMBER OF CONTAINERS SUBMITTED		
3/25/09	1440	MW-8D A	G	X				3	3	
↓	1545	MW-8S A	↓	↓				3	3	
↓	1039	EW-102 A	↓	↓				3	3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235	Amanda Hamilton	3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350	YES ○ NO ○		660-28426	2.5°C	cw-07

TAL8240-660 (1

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28426-1
SDG Number: 660-28426

Login Number: 28426
List Source: TestAmerica Tampa
Creator: Harrison, Amanda
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5 degrees C CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28426-1
SDG Number: 660-28426

Login Number: 28426
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/28/09 11:04 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

ANALYTICAL REPORT

Job Number: 660-28464-1

SDG Number: 660-28464

Job Description: Tallevast Soil Gas Parameter

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda

Approved for release.
Natalie Tafuni
Project Manager I
4/15/2009 3:04 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/15/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification # :TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Method	Analyst	Analyst ID
SW846 8260B	Lui, Chung	CL

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28464-1	MW-58A	Water	03/26/2009 1332	03/27/2009 1725
660-28464-2	MW-129A	Water	03/26/2009 1220	03/27/2009 1725

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Client Sample ID: MW-58A

Lab Sample ID: 660-28464-1
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1836
Date Prepared: 04/01/2009 1836

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0221.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	97	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	108	75 - 120

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Client Sample ID: MW-129A

Lab Sample ID: 660-28464-2
Client Matrix: Water

Date Sampled: 03/26/2009 1220
Date Received: 03/27/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1858
Date Prepared: 04/01/2009 1858

Analysis Batch: 680-134118

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: p0222.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	96	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	104	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28464-1	MW-58A	97	91	108
660-28464-2	MW-129A	96	91	104
MB 680-134118/10		94	91	103
LCS 680-134118/8		96	93	105
LCSD 680-134118/9		95	92	110

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Method Blank - Batch: 680-134118

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134118/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1258
Date Prepared: 04/01/2009 1258

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq151.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	94	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq148.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analysis Batch: 680-134118
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - P C2
Lab File ID: pq149.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	142	140	50 - 150	1	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	96	95	75 - 121
4-Bromofluorobenzene	93	92	75 - 120
Toluene-d8 (Surr)	105	110	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28464-1
Sdg Number: 660-28464

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134118

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134118/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1152
Date Prepared: 04/01/2009 1152

Units: ug/L

LCSD Lab Sample ID: LCSD 680-134118/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/01/2009 1215
Date Prepared: 04/01/2009 1215

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	70.9	70.2

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project Number: 660-28464

TestAmerica Denver Lot #: D9C310151

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc

Dee Kettula
for **DiLea Griego**
Project Manager

April 14, 2009

4955 Yarrow Street Arvada, CO 80002 tel 303.736.0100 fax 303.431.7171 www.testamericainc.com

Table of Contents

Standard Deliverables with Supporting Documentation

Report Contents	Number of Pages

Standard Deliverables

(*The **Report Cover** page is considered an integral part of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.)*

- **Table of Contents**
- **Case Narrative**
- **Executive Summary – Detection Highlights**
- **Methods Summary**
- **Method/Analyst Summary**
- **Lot Sample Summary**
- **QC Data Association Summary**
- **CLP Forms by Method/Batch**
- **Chain of Custody**

Supporting Documentation

(Note: A one-page "Description of Supporting Documentation" is provided at the beginning of this section.).

	Check below when supporting documentation is present.
• Volatile GC/MS	X
• Semivolatile GC/MS	
• Volatile GC	
• Semivolatile GC	
• LC/MS or HPLC	
• Metals	
• General Chemistry	
• Subcontracted Data	

Case Narrative
Lot D9C310151

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt
Two samples were received under chain of custody on March 31, 2009. The samples were received in good condition at a temperature of 4.4°C.

GC/MS Volatiles – Method 8260B
The internal standard, 1,4-Dichlorobenzene, was recovered outside the QC control limits in sample MW-129A (660-28464-2). This anomaly is not matrix related. The sample was reanalyzed outside of hold time to verify the results analyzed within hold time. Both sets of data are reported.

The MS/MSD associated with QC batch 9093244 exhibited spike compound recoveries outside the QC control limits for various compounds. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The MS/MSD analyses associated with QC batch 9096192 exhibited spike compound recoveries outside the QC control limits for various compounds. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The Initial Calibration Verification (ICV) standards associated with QC batches 9093244 and 9096192 exhibited the %Difference (%D) values greater than the allowed criteria, biased high, for Ethyl Acetate. As no detectable concentrations of these compounds are present in the associated samples, corrective action is deemed unnecessary.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D9C310151

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-58A (660-28464-1) 03/26/09 13:32 001				
Acetone	3.4 J	10	ug/L	SW846 8260B
MW-129A (660-28464-2) 03/26/09 12:20 002				
Methylene chloride	0.34 J	5.0	ug/L	SW846 8260B
Acetone	2.5 J	10	ug/L	SW846 8260B
Acetone	6.4 J	10	ug/L	SW846 8260B

METHODS SUMMARY

D9C310151

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9C310151

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8260B	Hayley E. Waterland	005423

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9C310151

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K9C1M	001	MW-58A (660-28464-1)	03/26/09	13:32
K9C1Q	002	MW-129A (660-28464-2)	03/26/09	12:20

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9C310151

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		9093244	9096147
002	WATER	SW846 8260B		9093244	9096147
	WATER	SW846 8260B		9096192	9097121

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9C310151

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: -001 & -002

Batch: 9093244

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-58A (660-28464-1)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-001
Matrix:	WATER	**Lab WorkOrder:**	K9C1M1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 13:32
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 20:05
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-58A (660-28464-1)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-001
Matrix:	WATER	**Lab WorkOrder:**	K9C1M1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 13:32
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 20:05
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	**3.4**	1.9	10	J
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-58A (660-28464-1)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-001
Matrix:	WATER	**Lab WorkOrder:**	K9C1M1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 13:32
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 20:05
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-58A (660-28464-1)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-001
Matrix:	WATER	**Lab WorkOrder:**	K9C1M1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 13:32
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 20:05
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	70	127	
2037-26-5	Toluene-d8	103	80	125	
1868-53-7	Dibromofluoromethane	110	77	119	
460-00-4	4-Bromofluorobenzene	103	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-129A (660-28464-2)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-002
Matrix:	WATER	**Lab WorkOrder:**	K9C1Q1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 12:20
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 17:54
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-129A (660-28464-2)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-002
Matrix:	WATER	**Lab WorkOrder:**	K9C1Q1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 12:20
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 17:54
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	**6.4**	1.9	10	J
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-129A (660-28464-2)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-002
Matrix:	WATER	**Lab WorkOrder:**	K9C1Q1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 12:20
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 17:54
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-129A (660-28464-2)
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9C310151-002
Matrix:	WATER	**Lab WorkOrder:**	K9C1Q1AA
% Moisture:	N/A	**Date/Time Collected:**	03/26/09 12:20
Basis:	Wet	**Date/Time Received:**	03/31/09 09:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 17:54
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	120	70	127	
2037-26-5	Toluene-d8	105	80	125	
1868-53-7	Dibromofluoromethane	118	77	119	
460-00-4	4-Bromofluorobenzene	94	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9D030000-244B
Matrix:	WATER	**Lab WorkOrder:**	K9MJQ1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 13:09
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9D030000-244B
Matrix:	WATER	**Lab WorkOrder:**	K9MJQ1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 13:09
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.81	0.81	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9D030000-244B
Matrix:	WATER	**Lab WorkOrder:**	K9MJQ1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 13:09
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	102	77	119	
460-00-4	4-Bromofluorobenzene	105	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25QK9H

Lot/SDG Number: D9C310151 **QC Batch ID:** 9093244

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
LAB MS/MSD MS	K8V9V1DT	97	105	94	104					0
LAB MS/MSD MSD	K8V9V1DU	92	103	98	103					0
MW-58A (660-28464-1)	K9C1M1AA	100	103	110	103					0
MW-129A (660-28464-2)	K9C1Q1AA	120	94	118	105					0
INTRA-LAB BLANK	K9MJQ1AA	103	105	102	102					0
CHECK SAMPLE	K9MJQ1AC	99	104	99	102					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9D030000-244C
Matrix:	WATER	**Lab WorkOrder:**	K9MJQ1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 12:13
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	10.0	10.4	104		72 - 120
Acetone	20.0	21.6	108		48 - 130
Ethylbenzene	10.0	10.2	102		78 - 120
Trichlorofluoromethane	10.0	9.62	96		63 - 135
Hexachlorobutadiene	10.0	8.44	84		73 - 123
2-Hexanone	20.0	20.2	101		57 - 121
Isopropylbenzene	10.0	8.43	84		71 - 120
4-Isopropyltoluene	10.0	8.21	82		76 - 120
Methylene chloride	10.0	9.70	97		71 - 120
4-Methyl-2-pentanone	20.0	20.6	103		65 - 120
Naphthalene	10.0	10.5	105		62 - 121
Benzene	10.0	10.2	102		77 - 120
2-Pentanone	20.0	19.6	98		42 - 120
n-Propylbenzene	10.0	9.40	94		76 - 120
Styrene	10.0	10.2	102		77 - 120
1,1,1,2-Tetrachloroethane	10.0	10.9	109		77 - 120
1,1,2,2-Tetrachloroethane	10.0	10.3	103		73 - 120
Tetrachloroethene	10.0	9.48	95		77 - 120
Toluene	10.0	10.1	101		73 - 120
1,2,3-Trichlorobenzene	10.0	11.0	110		66 - 123
1,2,4-Trichlorobenzene	10.0	9.94	99		73 - 121
1,1,1-Trichloroethane	10.0	10.3	103		78 - 120
1,1,2-Trichloroethane	10.0	10.9	109		76 - 120
Trichloroethene	10.0	11.0	110		78 - 122
1,2,3-Trichloropropane	10.0	10.7	107		72 - 120
1,2,4-Trimethylbenzene	10.0	9.52	95		77 - 120
1,3,5-Trimethylbenzene	10.0	9.65	97		77 - 120
Vinyl acetate	10.0	7.35	73		63 - 124
Vinyl chloride	10.0	11.1	111		49 - 136

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9D030000-244C
Matrix:	WATER	**Lab WorkOrder:**	K9MJQ1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 12:13
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	10.0	10.2	102		77 - 120
Xylenes (total)	30.0	30.6	102		77 - 120
Methyl tert-butyl ether	20.0	22.5	112		58 - 120
m-Xylene & p-Xylene	20.0	20.4	102		78 - 120
Bromobenzene	10.0	10.7	107		75 - 120
Bromochloromethane	10.0	10.6	106		78 - 120
Bromodichloromethane	10.0	10.9	109		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	10.0	9.90	99		65 - 120
1,2-Dibromoethane (EDB)	10.0	11.3	113		77 - 120
2-Butanone (MEK)	20.0	19.9	99		57 - 120
Bromoform	10.0	10.1	101		74 - 121
Bromomethane	10.0	11.0	110		42 - 154
n-Butylbenzene	10.0	7.92	79		76 - 120
sec-Butylbenzene	10.0	8.94	89		80 - 120
tert-Butylbenzene	10.0	9.05	91		76 - 120
Carbon disulfide	10.0	6.44	64		56 - 120
Carbon tetrachloride	10.0	10.1	101		80 - 120
Chlorobenzene	10.0	9.84	98		78 - 120
Chlorodibromomethane	10.0	11.4	114		76 - 120
Chloroethane	10.0	10.4	104		51 - 133
2-Chloroethyl vinyl ether	10.0	9.14	91		17 - 150
Chloroform	10.0	9.93	99		78 - 120
Chloromethane	10.0	10.8	108		46 - 142
2-Chlorotoluene	10.0	10.5	105		76 - 120
4-Chlorotoluene	10.0	10.3	103		78 - 120
Dibromomethane	10.0	10.8	108		77 - 120
1,2-Dichlorobenzene	10.0	10.5	105		76 - 120
1,3-Dichlorobenzene	10.0	9.99	100		75 - 120
1,4-Dichlorobenzene	10.0	9.70	97		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9D030000-244C
Matrix:	WATER	**Lab WorkOrder:**	K9MJQ1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 12:13
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	10.0	10.6	106		56 - 140
1,1-Dichloroethane	10.0	10.9	109		77 - 120
1,2-Dichloroethane	10.0	10.5	105		74 - 120
1,1-Dichloroethene	10.0	12.2	122		68 - 133
cis-1,2-Dichloroethene	10.0	10.6	106		75 - 120
trans-1,2-Dichloroethene	10.0	11.0	110		80 - 120
1,2-Dichloroethene (total)	20.0	21.7	108		78 - 120
1,2-Dichloropropane	10.0	10.9	109		76 - 120
1,3-Dichloropropane	10.0	10.9	109		75 - 120
2,2-Dichloropropane	10.0	10.4	104		72 - 128
1,1-Dichloropropene	10.0	10.5	105		75 - 120
cis-1,3-Dichloropropene	10.0	10.3	103		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	99	77	119	
460-00-4	4-Bromofluorobenzene	104	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C310151	**MS Lab Sample ID:**	D9C200166-006S
Matrix:	WATER	**MS Lab WorkOrder:**	K8V9V1DT
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 15:10
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 19:27
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	5.50		110		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	5.26		105		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	5.04		101		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	5.22		104		76 - 120
1,1-Dichloroethane	5.00	0.16	U	5.73		115		77 - 120
1,1-Dichloroethene	5.00	0.14	U	6.49		130		68 - 133
1,1-Dichloropropene	5.00	0.15	U	5.22		104		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	5.04		101		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	4.52		90		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.65		93		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	5.58		112		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	0.81	U	4.04		81		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.89		98		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	5.40		108		76 - 120
1,2-Dichloroethane	5.00	0.13	U	5.22		104		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	10.9		109		78 - 120
1,2-Dichloropropane	5.00	0.13	U	5.34		107		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	5.73		115		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	5.46		109		75 - 120
1,3-Dichloropropane	5.00	0.15	U	5.34		107		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	5.38		108		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.67		113		72 - 128
2-Butanone (MEK)	10.0	1.8	U	7.96		80		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	17 - 150
2-Chlorotoluene	5.00	0.17	U	5.87		117		76 - 120
2-Hexanone	10.0	1.4	U	8.57		86		57 - 121
2-Pentanone	10.0	0.82	U	9.69		97		42 - 120
4-Chlorotoluene	5.00	0.17	U	5.63		113		78 - 120
4-Isopropyltoluene	5.00	0.17	U	5.14		103		76 - 120

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C310151	**MS Lab Sample ID:**	D9C200166-006S
Matrix:	WATER	**MS Lab WorkOrder:**	K8V9V1DT
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 15:10
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 19:27
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
4-Methyl-2-pentanone	10.0	1.0	U	9.21		92		65 - 120
Acetone	10.0	1.9	U	9.37		94		48 - 130
Benzene	5.00	0.16	U	5.32		106		77 - 120
Bromobenzene	5.00	0.17	U	5.37		107		75 - 120
Bromochloromethane	5.00	0.10	U	5.06		101		78 - 120
Bromodichloromethane	5.00	0.17	U	5.29		106		78 - 120
Bromoform	5.00	0.19	U	4.31		86		74 - 121
Bromomethane	5.00	0.21	U	6.05		121		42 - 154
Carbon disulfide	5.00	0.45	U	3.42		68		56 - 120
Carbon tetrachloride	5.00	0.19	U	5.50		110		80 - 120
Chlorobenzene	5.00	0.17	U	5.38		108		78 - 120
Chlorodibromomethane	5.00	0.17	U	5.17		103		76 - 120
Chloroethane	5.00	0.41	U	6.80		136	a	51 - 133
Chloroform	5.00	0.16	U	5.42		108		78 - 120
Chloromethane	5.00	0.30	U	6.46		129		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	5.05		101		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.50		90		76 - 120
Dibromomethane	5.00	0.17	U	5.02		100		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	6.57		131		56 - 140
Ethylbenzene	5.00	0.16	U	5.79		116		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.52		110		73 - 123
Isopropylbenzene	5.00	0.19	U	4.83		97		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	11.8		118		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	9.97		100		58 - 120
Methylene chloride	5.00	0.35	J	5.38		101		71 - 120
n-Butylbenzene	5.00	0.14	U	5.29		106		76 - 120
n-Propylbenzene	5.00	0.16	U	5.58		112		76 - 120
Naphthalene	5.00	0.22	U	4.18		84		62 - 121
o-Xylene	5.00	0.19	U	5.67		113		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C310151	**MS Lab Sample ID:**	D9C200166-006S
Matrix:	WATER	**MS Lab WorkOrder:**	K8V9V1DT
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 15:10
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 19:27
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
sec-Butylbenzene	5.00	0.17	U	5.45		109		80 - 120
Styrene	5.00	0.17	U	5.23		105		77 - 120
tert-Butylbenzene	5.00	0.16	U	5.65		113		76 - 120
Tetrachloroethene	5.00	0.20	U	5.45		109		77 - 120
Toluene	5.00	0.17	U	5.53		111		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	5.87		117		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.88		98		72 - 120
Trichloroethene	5.00	0.16	U	5.21		104		78 - 122
Trichlorofluoromethane	5.00	0.29	U	6.05		121		63 - 135
Vinyl acetate	5.00	0.94	U	4.78		96		63 - 124
Vinyl chloride	5.00	0.40	U	7.10		142	a	49 - 136
Xylenes (total)	15.0	0.19	U	17.5		117		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	97	70	127	
460-00-4	4-Bromofluorobenzene	105	78	118	
1868-53-7	Dibromofluoromethane	94	77	119	
2037-26-5	Toluene-d8	104	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C310151	**MSD Lab Sample ID:**	D9C200166-006D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8V9V1DU
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 15:10
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 19:08
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	5.38		108		2.1		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	5.54		111		5.2		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.66		93		7.7		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.80		96		8.3		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	5.81		116		1.4		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	6.31		126		2.8		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	5.13		103		1.6		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	5.20		104		3.0		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	4.32		86		4.6		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	4.84		97		4.0		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	5.62		112		0.84		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	0.81	U	4.46		89		9.8		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.39		88		11		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	5.31		106		1.6		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	5.01		100		4.1		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	10.8		108		1.5		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	5.25		105		1.7		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	5.81		116		1.4		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	5.51		110		0.95		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.79		96		11		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	5.45		109		1.4		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	5.62		112		0.88		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	5.95		60		29		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	0.74	U	0.0	a	0.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	6.03		121	a	2.7		76 - 120	20

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C310151	**MSD Lab Sample ID:**	D9C200166-006D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8V9V1DU
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 15:10
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 19:08
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	7.04		70		20		57 - 121	25
2-Pentanone	10.0	0.82	U	8.48		85		13		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	5.74		115		2.0		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	5.32		106		3.4		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	7.72		77		18		65 - 120	22
Acetone	10.0	1.9	U	6.72		67		33		48 - 130	41
Benzene	5.00	0.16	U	5.33		107		0.28		77 - 120	20
Bromobenzene	5.00	0.17	U	5.32		106		0.76		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.79		96		5.3		78 - 120	20
Bromodichloromethane	5.00	0.17	U	5.14		103		3.0		78 - 120	20
Bromoform	5.00	0.19	U	3.87		77		11		74 - 121	21
Bromomethane	5.00	0.21	U	5.64		113		7.0		42 - 154	24
Carbon disulfide	5.00	0.45	U	3.31		66		3.2		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	5.56		111		1.1		80 - 120	21
Chlorobenzene	5.00	0.17	U	5.34		107		0.80		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.74		95		8.7		76 - 120	20
Chloroethane	5.00	0.41	U	6.34		127		6.9		51 - 133	25
Chloroform	5.00	0.16	U	5.42		108		0.020		78 - 120	20
Chloromethane	5.00	0.30	U	5.91		118		8.9		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.96		99		1.8		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.14		83		8.4		76 - 120	20
Dibromomethane	5.00	0.17	U	4.80		96		4.4		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	6.10		122		7.4		56 - 140	24
Ethylbenzene	5.00	0.16	U	5.80		116		0.11		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	6.08		122		9.6		73 - 123	25

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	LAB MS/MSD
Lot/SDG Number:	D9C310151	**MSD Lab Sample ID:**	D9C200166-006D
Matrix:	WATER	**MSD Lab WorkOrder:**	K8V9V1DU
% Moisture:	N/A	**Date/Time Collected:**	03/19/09 15:10
Basis:	Wet	**Date/Time Received:**	03/20/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/02/09 08:21
QC Batch ID:	9093244	**Date/Time Analyzed:**	04/02/09 19:08
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	4.87		97		0.66		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	11.8		118		0.28		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	8.93		89		11		58 - 120	21
Methylene chloride	5.00	0.35	J	5.53		103		2.6		71 - 120	20
n-Butylbenzene	5.00	0.14	U	5.58		112		5.5		76 - 120	21
n-Propylbenzene	5.00	0.16	U	5.75		115		3.0		76 - 120	20
Naphthalene	5.00	0.22	U	4.04		81		3.2		62 - 121	32
o-Xylene	5.00	0.19	U	5.61		112		1.1		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	5.60		112		2.8		80 - 120	21
Styrene	5.00	0.17	U	5.06		101		3.3		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	5.38		108		4.9		76 - 120	21
Tetrachloroethene	5.00	0.20	U	5.30		106		2.7		77 - 120	20
Toluene	5.00	0.17	U	5.46		109		1.3		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	5.80		116		1.2		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.48		90		8.5		72 - 120	20
Trichloroethene	5.00	0.16	U	5.03		101		3.5		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	5.46		109		10		63 - 135	20
Vinyl acetate	5.00	0.94	U	4.41		88		8.0		63 - 124	24
Vinyl chloride	5.00	0.40	U	6.34		127		11		49 - 136	24
Xylenes (total)	15.0	0.19	U	17.5		116		0.17		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	92	70	127	
460-00-4	4-Bromofluorobenzene	103	78	118	
1868-53-7	Dibromofluoromethane	98	77	119	
2037-26-5	Toluene-d8	103	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	R0308.D
Lot/SDG Number:	D9C310151	**Lab Sample ID:**	D9D030000-244B
Matrix:	WATER	**Lab Work Order:**	K9MJQ1AA
Analysis Method:	8260B	**Date/Time Extracted:**	04/02/09 08:21
Extraction Method:	I25QK9H	**Date/Time Analyzed:**	04/02/09 13:09
QC Batch ID:	9093244	**Instrument ID:**	R1

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
LAB MS/MSD MS	K8V9V1DT S	R0308.D	04/02/09	19:27
LAB MS/MSD MSD	K8V9V1DU D	R0307.D	04/02/09	19:08
MW-58A (660-28464-1)	K9C1M1AA	R0310.D	04/02/09	20:05
MW-129A (660-28464-2)	K9C1Q1AA	R0303.D	04/02/09	17:54
CHECK SAMPLE	K9MJQ1AC C	R0286.D	04/02/09	12:13

Serial Number 12246

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil Gas Parameters

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28464

Alternate Laboratory Name/Location
Savannah & Denver
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil Gas Parameter	B003855.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	PRESERVATIVE: HCl	PRESERVATIVE: NONE	REQUIRED ANALYSIS: 8260B (Savannah)	REQUIRED ANALYSIS: Volatiles (Denver)	REMARKS
3/26/09	1332	MW-58A	G	X						3	3	
3/26/09	1220	MW-129A	G	X						3	3	

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Lisa Kleinert	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-27-09	1725	YES ○ NO ○		660-28464	1.5 C cw-07	

TAL8240-660 (1207)

Page 46 of 48

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28464-1
SDG Number: 660-28464

Login Number: 28464
Creator: Volz, Charles
List Number: 1

List Source: TestAmerica Tampa

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Received @ 1.5 Degrees C. CU-07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28464-1
SDG Number: 660-28464

Login Number: 28464
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah
List Creation: 03/31/09 09:40 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

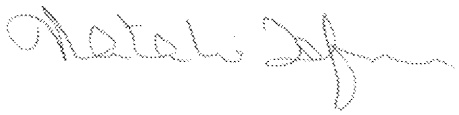
Job Number: 660-28502-1

SDG Number: 660-28502

Job Description: Tallevast Soil Gas Parameters

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda



Approved for release.
Natalie Tafuni
Project Manager I
4/20/2009 4:37 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/20/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

TestAmerica Laboratories, Inc.
TestAmerica Tampa 6712 Benjamin Road, Suite 100, Tampa, FL 33634
Tel (813) 885-7427 Fax (813) 885-7049 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

8260B
There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28502-1	MW-39A	Water	03/30/2009 1145	03/31/2009 1430
660-28502-2	MW-38A	Water	03/30/2009 1115	03/31/2009 1430
660-28502-3	MW-12A	Water	03/30/2009 1340	03/31/2009 1430
660-28502-4	IWI-1A	Water	03/30/2009 1042	03/31/2009 1430
660-28502-5	IWI-2A	Water	03/30/2009 0951	03/31/2009 1430
660-28502-6	MW-10A	Water	03/30/2009 1422	03/31/2009 1430
660-28502-7	EW-UFAG-1A	Water	03/30/2009 1125	03/31/2009 1430

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Client Sample ID: MW-39A

Lab Sample ID: 660-28502-1
Client Matrix: Water

Date Sampled: 03/30/2009 1145
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1446
Date Prepared: 04/08/2009 1446

Analysis Batch: 680-134711

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8601.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	95	75 - 121
4-Bromofluorobenzene	96	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Client Sample ID: **MW-38A**

Lab Sample ID: 660-28502-2
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1729
Date Prepared: 04/07/2009 1729

Analysis Batch: 680-134552

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8577.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	101	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Client Sample ID: MW-12A

Lab Sample ID: 660-28502-3
Client Matrix: Water

Date Sampled: 03/30/2009 1340
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1758
Date Prepared: 04/07/2009 1758

Analysis Batch: 680-134552

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8579.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	101	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Client Sample ID: IWI-1A

Lab Sample ID: 660-28502-4
Client Matrix: Water

Date Sampled: 03/30/2009 1042
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1515
Date Prepared: 04/08/2009 1515

Analysis Batch: 680-134711

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8603.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	97	75 - 121
4-Bromofluorobenzene	97	75 - 120
Toluene-d8 (Surr)	99	75 - 120

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Client Sample ID: IWI-2A

Lab Sample ID: 660-28502-5
Client Matrix: Water

Date Sampled: 03/30/2009 0951
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1827
Date Prepared: 04/07/2009 1827

Analysis Batch: 680-134552

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8581.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Client Sample ID: MW-10A

Lab Sample ID: 660-28502-6
Client Matrix: Water

Date Sampled: 03/30/2009 1422
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1856
Date Prepared: 04/07/2009 1856

Analysis Batch: 680-134552

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8583.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	102	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Client Sample ID: EW-UFAG-1A

Lab Sample ID: 660-28502-7
Client Matrix: Water

Date Sampled: 03/30/2009 1125
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1925
Date Prepared: 04/07/2009 1925

Analysis Batch: 680-134552

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8585.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	96	75 - 120
Toluene-d8 (Surr)	102	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28502-1	MW-39A	95	96	103
660-28502-2	MW-38A	101	94	103
660-28502-3	MW-12A	101	94	103
660-28502-4	IWI-1A	97	97	99
660-28502-5	IWI-2A	100	93	103
660-28502-6	MW-10A	102	94	103
660-28502-7	EW-UFAG-1A	99	96	102
MB 680-134552/6		100	93	104
MB 680-134711/13		103	94	102
LCS 680-134552/4		103	100	103
LCS 680-134711/10		102	96	99
LCSD 680-134552/5		101	99	101
LCSD 680-134711/11		103	98	101

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Method Blank - Batch: 680-134552

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134552/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 1112
Date Prepared: 04/07/2009 1112

Analysis Batch: 680-134552
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq651.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134552

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134552/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0917
Date Prepared: 04/07/2009 0917

Analysis Batch: 680-134552
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq643.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134552/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0946
Date Prepared: 04/07/2009 0946

Analysis Batch: 680-134552
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq645.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	125	122	50 - 150	3	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	103	101	75 - 121
4-Bromofluorobenzene	100	99	75 - 120
Toluene-d8 (Surr)	103	101	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134552

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134552/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0917
Date Prepared: 04/07/2009 0917

Units: ug/L

LCSD Lab Sample ID: LCSD 680-134552/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/07/2009 0946
Date Prepared: 04/07/2009 0946

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	62.7	61.2

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Method Blank - Batch: 680-134711

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134711/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 1021
Date Prepared: 04/08/2009 1021

Analysis Batch: 680-134711
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq665.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	103	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	102	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134711

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134711/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 0826
Date Prepared: 04/08/2009 0826

Analysis Batch: 680-134711
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq657.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134711/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 0855
Date Prepared: 04/08/2009 0855

Analysis Batch: 680-134711
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq659.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	122	120	50 - 150	2	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	102	103	75 - 121
4-Bromofluorobenzene	96	98	75 - 120
Toluene-d8 (Surr)	99	101	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28502-1
Sdg Number: 660-28502

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134711

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134711/10
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 0826
Date Prepared: 04/08/2009 0826

Units: ug/L

LCSD Lab Sample ID: LCSD 680-134711/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/08/2009 0855
Date Prepared: 04/08/2009 0855

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	61.0	59.8

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project Number: 660-02752

TestAmerica Denver Lot #: D9D020286

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc

Dee Kettula
for **DiLea Griego**
Project Manager

April 15, 2009

Case Narrative
Lot D9D020286

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt

Seven samples were received under chain of custody on April 2, 2009. The samples were received in good condition at a temperature of 1.9°C.

GC/MS Volatiles – Method 8260B

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, samples MW-39A (660-28502-1), MW-38A (660-28502-2), IWI-1A (660-28502-4), and EW-UFAG-1A (660-28502-7) had to be performed at dilutions. The reporting limits have been adjusted relative to the dilution required.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D9D020286

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-39A(660-28502-1) 03/30/09 11:45 001				
1,1-Dichloroethane	44 J	50	ug/L	SW846 8260B
cis-1,2-Dichloroethene	200	50	ug/L	SW846 8260B
1,1-Dichloroethene	150	50	ug/L	SW846 8260B
Methylene chloride	22 J	250	ug/L	SW846 8260B
Tetrachloroethene	170	50	ug/L	SW846 8260B
Trichloroethene	1400	50	ug/L	SW846 8260B
MW-38A(660-28502-2) 03/30/09 11:15 002				
Tetrachloroethene	99	6.7	ug/L	SW846 8260B
1,1-Dichloroethane	4.7 J	6.7	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.2 J	6.7	ug/L	SW846 8260B
1,1-Dichloroethene	3.6 J	6.7	ug/L	SW846 8260B
Trichloroethene	180	6.7	ug/L	SW846 8260B
Trichlorotrifluoroethane	6.3 J	20	ug/L	SW846 8260B
MW-12A(660-28502-3) 03/30/09 13:40 003				
1,1-Dichloroethane	3.5	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.4	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	1.6	1.0	ug/L	SW846 8260B
Tetrachloroethene	25	1.0	ug/L	SW846 8260B
Trichloroethene	59	1.0	ug/L	SW846 8260B
Trichlorotrifluoroethane	12	3.0	ug/L	SW846 8260B
IWI-1A(660-28502-4) 03/30/09 10:42 004				
1,1-Dichloroethane	45 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	130	100	ug/L	SW846 8260B
1,1-Dichloroethene	300	100	ug/L	SW846 8260B
Methylene chloride	57 J	500	ug/L	SW846 8260B
Trichloroethene	3400	100	ug/L	SW846 8260B
IWI-2A(660-28502-5) 03/30/09 09:51 005				
1,1-Dichloroethane	2.9	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	15	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	4.8	1.0	ug/L	SW846 8260B
Trichloroethene	21	1.0	ug/L	SW846 8260B
Vinyl chloride	8.2	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D9D020286

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-10A(660-28502-6) 03/30/09 14:22 006				
1,1-Dichloroethane	23	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.89 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	2.2	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.38 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	3.5	1.0	ug/L	SW846 8260B
Trichloroethene	1.0	1.0	ug/L	SW846 8260B
EW-UFAG-1A(660-28502-7) 03/30/09 23:25 007				
1,1-Dichloroethane	47 J	67	ug/L	SW846 8260B
cis-1,2-Dichloroethene	290	67	ug/L	SW846 8260B
1,1-Dichloroethene	250	67	ug/L	SW846 8260B
Methylene chloride	40 J	330	ug/L	SW846 8260B
Tetrachloroethene	80	67	ug/L	SW846 8260B
Trichloroethene	2000	67	ug/L	SW846 8260B

METHODS SUMMARY

D9D020286

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9D020286

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8260B	Hayley E. Waterland	005423

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9D020286

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K9HGL	001	MW-39A(660-28502-1)	03/30/09	11:45
K9HGW	002	MW-38A(660-28502-2)	03/30/09	11:15
K9HG2	003	MW-12A(660-28502-3)	03/30/09	13:40
K9HG3	004	IWI-1A(660-28502-4)	03/30/09	10:42
K9HG4	005	IWI-2A(660-28502-5)	03/30/09	09:51
K9HG6	006	MW-10A(660-28502-6)	03/30/09	14:22
K9HG8	007	EW-UFAG-1A(660-28502-7)	03/30/09	23:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9D020286

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		9097190	9097248
002	WATER	SW846 8260B		9097190	9097248
003	WATER	SW846 8260B		9097190	9097248
004	WATER	SW846 8260B		9097190	9097248
005	WATER	SW846 8260B		9097190	9097248
006	WATER	SW846 8260B		9097190	9097248
007	WATER	SW846 8260B		9097190	9097248

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9D020286

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: -001 through -007

Batch: 9097190

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-39A(660-28502-1)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-001
Matrix:	WATER	**Lab WorkOrder:**	K9HGL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:45
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 15:47
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	8.5	8.5	50	U
71-55-6	1,1,1-Trichloroethane	8.0	8.0	50	U
79-34-5	1,1,2,2-Tetrachloroethane	10	10	50	U
79-00-5	1,1,2-Trichloroethane	16	16	50	U
75-34-3	1,1-Dichloroethane	44	8.0	50	J
75-35-4	1,1-Dichloroethene	150	7.0	50	
563-58-6	1,1-Dichloropropene	7.5	7.5	50	U
87-61-6	1,2,3-Trichlorobenzene	9.0	9.0	50	U
96-18-4	1,2,3-Trichloropropane	38	38	120	U
120-82-1	1,2,4-Trichlorobenzene	16	16	50	U
95-63-6	1,2,4-Trimethylbenzene	7.0	7.0	50	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	75	75	250	U
106-93-4	1,2-Dibromoethane (EDB)	9.0	9.0	50	U
95-50-1	1,2-Dichlorobenzene	6.5	6.5	50	U
107-06-2	1,2-Dichloroethane	6.5	6.5	50	U
78-87-5	1,2-Dichloropropane	6.5	6.5	50	U
108-67-8	1,3,5-Trimethylbenzene	7.0	7.0	50	U
541-73-1	1,3-Dichlorobenzene	8.0	8.0	50	U
142-28-9	1,3-Dichloropropane	7.5	7.5	50	U
106-46-7	1,4-Dichlorobenzene	8.0	8.0	50	U
594-20-7	2,2-Dichloropropane	10	10	250	U
78-93-3	2-Butanone (MEK)	92	92	300	U
95-49-8	2-Chlorotoluene	8.5	8.5	50	U
591-78-6	2-Hexanone	70	70	250	U
106-43-4	4-Chlorotoluene	8.5	8.5	50	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-39A(660-28502-1)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-001
Matrix:	WATER	**Lab WorkOrder:**	K9HGL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:45
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 15:47
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	8.5	8.5	50	U
108-10-1	4-Methyl-2-pentanone	52	52	250	U
67-64-1	Acetone	95	95	500	U
75-05-8	Acetonitrile	480	480	1500	U
107-02-8	Acrolein	140	140	1000	U
107-13-1	Acrylonitrile	70	70	1000	U
107-05-1	Allyl chloride	8.5	8.5	100	U
71-43-2	Benzene	8.0	8.0	50	U
108-86-1	Bromobenzene	8.5	8.5	50	U
74-97-5	Bromochloromethane	5.0	5.0	50	U
75-27-4	Bromodichloromethane	8.5	8.5	50	U
75-25-2	Bromoform	9.5	9.5	50	U
74-83-9	Bromomethane	10	10	100	U
75-15-0	Carbon disulfide	22	22	100	U
56-23-5	Carbon tetrachloride	9.5	9.5	50	U
108-90-7	Chlorobenzene	8.5	8.5	50	U
124-48-1	Chlorodibromomethane	8.5	8.5	50	U
75-00-3	Chloroethane	20	20	100	U
67-66-3	Chloroform	8.0	8.0	50	U
74-87-3	Chloromethane	15	15	100	U
156-59-2	cis-1,2-Dichloroethene	**200**	7.5	50	
10061-01-5	cis-1,3-Dichloropropene	8.0	8.0	50	U
74-95-3	Dibromomethane	8.5	8.5	50	U
75-71-8	Dichlorodifluoromethane	16	16	100	U
64-17-5	Ethanol	4700	4700	15000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-39A(660-28502-1)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-001
Matrix:	WATER	**Lab WorkOrder:**	K9HGL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:45
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 15:47
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	60	60	250	U
100-41-4	Ethylbenzene	8.0	8.0	50	U
87-68-3	Hexachlorobutadiene	6.0	6.0	50	U
67-63-0	Isopropanol	650	650	2000	U
98-82-8	Isopropylbenzene	9.5	9.5	50	U
80-62-6	Methyl methacrylate	56	56	200	U
1634-04-4	Methyl tert-butyl ether	12	12	250	U
75-09-2	Methylene chloride	**22**	16	250	J
136777-61-2	m-Xylene & p-Xylene	17	17	100	U
91-20-3	Naphthalene	11	11	50	U
104-51-8	n-Butylbenzene	7.0	7.0	50	U
103-65-1	n-Propylbenzene	8.0	8.0	50	U
95-47-6	o-Xylene	9.5	9.5	50	U
135-98-8	sec-Butylbenzene	8.5	8.5	50	U
100-42-5	Styrene	8.5	8.5	50	U
75-65-0	tert-Butyl alcohol	190	190	2500	U
98-06-6	tert-Butylbenzene	8.0	8.0	50	U
127-18-4	Tetrachloroethene	**170**	10	50	
109-99-9	Tetrahydrofuran	100	100	350	U
108-88-3	Toluene	8.5	8.5	50	U
156-60-5	trans-1,2-Dichloroethene	7.5	7.5	50	U
10061-02-6	trans-1,3-Dichloropropene	9.5	9.5	150	U
79-01-6	Trichloroethene	**1400**	8.0	50	
75-69-4	Trichlorofluoromethane	14	14	100	U
76-13-1	Trichlorotrifluoroethane	40	40	150	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-39A(660-28502-1)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-001
Matrix:	WATER	**Lab WorkOrder:**	K9HGL1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:45
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 15:47
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	50		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	47	47	150	U
75-01-4	Vinyl chloride	20	20	50	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	93	70	127	
2037-26-5	Toluene-d8	105	80	125	
1868-53-7	Dibromofluoromethane	111	77	119	
460-00-4	4-Bromofluorobenzene	99	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-38A(660-28502-2)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-002
Matrix:	WATER	**Lab WorkOrder:**	K9HGW1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:15
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:05
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.1	1.1	6.7	U
71-55-6	1,1,1-Trichloroethane	1.1	1.1	6.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	1.3	6.7	U
79-00-5	1,1,2-Trichloroethane	2.1	2.1	6.7	U
75-34-3	1,1-Dichloroethane	**4.7**	1.1	6.7	J
75-35-4	1,1-Dichloroethene	**3.6**	0.93	6.7	J
563-58-6	1,1-Dichloropropene	1.0	1.0	6.7	U
87-61-6	1,2,3-Trichlorobenzene	1.2	1.2	6.7	U
96-18-4	1,2,3-Trichloropropane	5.1	5.1	17	U
120-82-1	1,2,4-Trichlorobenzene	2.1	2.1	6.7	U
95-63-6	1,2,4-Trimethylbenzene	0.93	0.93	6.7	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	10	10	33	U
106-93-4	1,2-Dibromoethane (EDB)	1.2	1.2	6.7	U
95-50-1	1,2-Dichlorobenzene	0.87	0.87	6.7	U
107-06-2	1,2-Dichloroethane	0.87	0.87	6.7	U
78-87-5	1,2-Dichloropropane	0.87	0.87	6.7	U
108-67-8	1,3,5-Trimethylbenzene	0.93	0.93	6.7	U
541-73-1	1,3-Dichlorobenzene	1.1	1.1	6.7	U
142-28-9	1,3-Dichloropropane	1.0	1.0	6.7	U
106-46-7	1,4-Dichlorobenzene	1.1	1.1	6.7	U
594-20-7	2,2-Dichloropropane	1.3	1.3	33	U
78-93-3	2-Butanone (MEK)	12	12	40	U
95-49-8	2-Chlorotoluene	1.1	1.1	6.7	U
591-78-6	2-Hexanone	9.3	9.3	33	U
106-43-4	4-Chlorotoluene	1.1	1.1	6.7	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-38A(660-28502-2)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-002
Matrix:	WATER	**Lab WorkOrder:**	K9HGW1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:15
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:05
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	1.1	1.1	6.7	U
108-10-1	4-Methyl-2-pentanone	6.9	6.9	33	U
67-64-1	Acetone	13	13	67	U
75-05-8	Acetonitrile	64	64	200	U
107-02-8	Acrolein	19	19	130	U
107-13-1	Acrylonitrile	9.3	9.3	130	U
107-05-1	Allyl chloride	1.1	1.1	13	U
71-43-2	Benzene	1.1	1.1	6.7	U
108-86-1	Bromobenzene	1.1	1.1	6.7	U
74-97-5	Bromochloromethane	0.67	0.67	6.7	U
75-27-4	Bromodichloromethane	1.1	1.1	6.7	U
75-25-2	Bromoform	1.3	1.3	6.7	U
74-83-9	Bromomethane	1.4	1.4	13	U
75-15-0	Carbon disulfide	3.0	3.0	13	U
56-23-5	Carbon tetrachloride	1.3	1.3	6.7	U
108-90-7	Chlorobenzene	1.1	1.1	6.7	U
124-48-1	Chlorodibromomethane	1.1	1.1	6.7	U
75-00-3	Chloroethane	2.7	2.7	13	U
67-66-3	Chloroform	1.1	1.1	6.7	U
74-87-3	Chloromethane	2.0	2.0	13	U
156-59-2	cis-1,2-Dichloroethene	**2.2**	1.0	6.7	J
10061-01-5	cis-1,3-Dichloropropene	1.1	1.1	6.7	U
74-95-3	Dibromomethane	1.1	1.1	6.7	U
75-71-8	Dichlorodifluoromethane	2.1	2.1	13	U
64-17-5	Ethanol	630	630	2000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-38A(660-28502-2)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-002
Matrix:	WATER	**Lab WorkOrder:**	K9HGW1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:15
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:05
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	8.0	8.0	33	U
100-41-4	Ethylbenzene	1.1	1.1	6.7	U
87-68-3	Hexachlorobutadiene	0.80	0.80	6.7	U
67-63-0	Isopropanol	87	87	270	U
98-82-8	Isopropylbenzene	1.3	1.3	6.7	U
80-62-6	Methyl methacrylate	7.4	7.4	27	U
1634-04-4	Methyl tert-butyl ether	1.7	1.7	33	U
75-09-2	Methylene chloride	2.1	2.1	33	U
136777-61-2	m-Xylene & p-Xylene	2.3	2.3	13	U
91-20-3	Naphthalene	1.5	1.5	6.7	U
104-51-8	n-Butylbenzene	0.93	0.93	6.7	U
103-65-1	n-Propylbenzene	1.1	1.1	6.7	U
95-47-6	o-Xylene	1.3	1.3	6.7	U
135-98-8	sec-Butylbenzene	1.1	1.1	6.7	U
100-42-5	Styrene	1.1	1.1	6.7	U
75-65-0	tert-Butyl alcohol	25	25	330	U
98-06-6	tert-Butylbenzene	1.1	1.1	6.7	U
127-18-4	Tetrachloroethene	**99**	1.3	6.7	
109-99-9	Tetrahydrofuran	14	14	47	U
108-88-3	Toluene	1.1	1.1	6.7	U
156-60-5	trans-1,2-Dichloroethene	1.0	1.0	6.7	U
10061-02-6	trans-1,3-Dichloropropene	1.3	1.3	20	U
79-01-6	Trichloroethene	**180**	1.1	6.7	
75-69-4	Trichlorofluoromethane	1.9	1.9	13	U
76-13-1	Trichlorotrifluoroethane	**6.3**	5.3	20	J

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-38A(660-28502-2)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-002
Matrix:	WATER	**Lab WorkOrder:**	K9HGW1AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 11:15
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:05
Sample Aliquot:	3 mL	**Instrument ID:**	R1
Dilution Factor:	6.66		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	6.3	6.3	20	U
75-01-4	Vinyl chloride	2.7	2.7	6.7	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	96	70	127	
2037-26-5	Toluene-d8	103	80	125	
1868-53-7	Dibromofluoromethane	109	77	119	
460-00-4	4-Bromofluorobenzene	100	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-12A(660-28502-3)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-003
Matrix:	WATER	**Lab WorkOrder:**	K9HG21AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 13:40
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**3.5**	0.16	1.0	
75-35-4	1,1-Dichloroethene	**1.6**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-12A(660-28502-3)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-003
Matrix:	WATER	**Lab WorkOrder:**	K9HG21AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 13:40
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	**2.4**	0.15	1.0	
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-12A(660-28502-3)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-003
Matrix:	WATER	**Lab WorkOrder:**	K9HG21AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 13:40
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**25**	0.20	1.0	
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**59**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	**12**	0.79	3.0	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-12A(660-28502-3)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-003
Matrix:	WATER	**Lab WorkOrder:**	K9HG21AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 13:40
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	99	77	119	
460-00-4	4-Bromofluorobenzene	101	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-1A(660-28502-4)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-004
Matrix:	WATER	**Lab WorkOrder:**	K9HG31AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 10:42
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	17	17	100	U
71-55-6	1,1,1-Trichloroethane	16	16	100	U
79-34-5	1,1,2,2-Tetrachloroethane	20	20	100	U
79-00-5	1,1,2-Trichloroethane	32	32	100	U
75-34-3	1,1-Dichloroethane	**45**	16	100	J
75-35-4	1,1-Dichloroethene	**300**	14	100	
563-58-6	1,1-Dichloropropene	15	15	100	U
87-61-6	1,2,3-Trichlorobenzene	18	18	100	U
96-18-4	1,2,3-Trichloropropane	77	77	250	U
120-82-1	1,2,4-Trichlorobenzene	32	32	100	U
95-63-6	1,2,4-Trimethylbenzene	14	14	100	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	150	150	500	U
106-93-4	1,2-Dibromoethane (EDB)	18	18	100	U
95-50-1	1,2-Dichlorobenzene	13	13	100	U
107-06-2	1,2-Dichloroethane	13	13	100	U
78-87-5	1,2-Dichloropropane	13	13	100	U
108-67-8	1,3,5-Trimethylbenzene	14	14	100	U
541-73-1	1,3-Dichlorobenzene	16	16	100	U
142-28-9	1,3-Dichloropropane	15	15	100	U
106-46-7	1,4-Dichlorobenzene	16	16	100	U
594-20-7	2,2-Dichloropropane	20	20	500	U
78-93-3	2-Butanone (MEK)	180	180	600	U
95-49-8	2-Chlorotoluene	17	17	100	U
591-78-6	2-Hexanone	140	140	500	U
106-43-4	4-Chlorotoluene	17	17	100	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-1A(660-28502-4)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-004
Matrix:	WATER	**Lab WorkOrder:**	K9HG31AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 10:42
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	17	17	100	U
108-10-1	4-Methyl-2-pentanone	100	100	500	U
67-64-1	Acetone	190	190	1000	U
75-05-8	Acetonitrile	960	960	3000	U
107-02-8	Acrolein	280	280	2000	U
107-13-1	Acrylonitrile	140	140	2000	U
107-05-1	Allyl chloride	17	17	200	U
71-43-2	Benzene	16	16	100	U
108-86-1	Bromobenzene	17	17	100	U
74-97-5	Bromochloromethane	10	10	100	U
75-27-4	Bromodichloromethane	17	17	100	U
75-25-2	Bromoform	19	19	100	U
74-83-9	Bromomethane	21	21	200	U
75-15-0	Carbon disulfide	45	45	200	U
56-23-5	Carbon tetrachloride	19	19	100	U
108-90-7	Chlorobenzene	17	17	100	U
124-48-1	Chlorodibromomethane	17	17	100	U
75-00-3	Chloroethane	41	41	200	U
67-66-3	Chloroform	16	16	100	U
74-87-3	Chloromethane	30	30	200	U
156-59-2	cis-1,2-Dichloroethene	**130**	15	100	
10061-01-5	cis-1,3-Dichloropropene	16	16	100	U
74-95-3	Dibromomethane	17	17	100	U
75-71-8	Dichlorodifluoromethane	31	31	200	U
64-17-5	Ethanol	9400	9400	30000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-1A(660-28502-4)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-004
Matrix:	WATER	**Lab WorkOrder:**	K9HG31AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 10:42
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	120	120	500	U
100-41-4	Ethylbenzene	16	16	100	U
87-68-3	Hexachlorobutadiene	12	12	100	U
67-63-0	Isopropanol	1300	1300	4000	U
98-82-8	Isopropylbenzene	19	19	100	U
80-62-6	Methyl methacrylate	110	110	400	U
1634-04-4	Methyl tert-butyl ether	25	25	500	U
75-09-2	Methylene chloride	57	32	500	J
136777-61-2	m-Xylene & p-Xylene	34	34	200	U
91-20-3	Naphthalene	22	22	100	U
104-51-8	n-Butylbenzene	14	14	100	U
103-65-1	n-Propylbenzene	16	16	100	U
95-47-6	o-Xylene	19	19	100	U
135-98-8	sec-Butylbenzene	17	17	100	U
100-42-5	Styrene	17	17	100	U
75-65-0	tert-Butyl alcohol	380	380	5000	U
98-06-6	tert-Butylbenzene	16	16	100	U
127-18-4	Tetrachloroethene	20	20	100	U
109-99-9	Tetrahydrofuran	200	200	700	U
108-88-3	Toluene	17	17	100	U
156-60-5	trans-1,2-Dichloroethene	15	15	100	U
10061-02-6	trans-1,3-Dichloropropene	19	19	300	U
79-01-6	Trichloroethene	3400	16	100	
75-69-4	Trichlorofluoromethane	29	29	200	U
76-13-1	Trichlorotrifluoroethane	79	79	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-1A(660-28502-4)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-004
Matrix:	WATER	**Lab WorkOrder:**	K9HG31AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 10:42
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	94	94	300	U
75-01-4	Vinyl chloride	40	40	100	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	98	70	127	
2037-26-5	Toluene-d8	104	80	125	
1868-53-7	Dibromofluoromethane	93	77	119	
460-00-4	4-Bromofluorobenzene	101	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-005
Matrix:	WATER	**Lab WorkOrder:**	K9HG41AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 12:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**2.9**	0.16	1.0	
75-35-4	1,1-Dichloroethene	**4.8**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-005
Matrix:	WATER	**Lab WorkOrder:**	K9HG41AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 12:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	**15**	0.15	1.0	
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-005
Matrix:	WATER	**Lab WorkOrder:**	K9HG41AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 12:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**21**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-005
Matrix:	WATER	**Lab WorkOrder:**	K9HG41AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 12:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	**8.2**	0.40	1.0	

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	91	70	127	
2037-26-5	Toluene-d8	104	80	125	
1868-53-7	Dibromofluoromethane	92	77	119	
460-00-4	4-Bromofluorobenzene	100	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-10A(660-28502-6)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-006
Matrix:	WATER	**Lab WorkOrder:**	K9HG61AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 14:22
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:58
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**23**	0.16	1.0	
75-35-4	1,1-Dichloroethene	**2.2**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-10A(660-28502-6)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-006
Matrix:	WATER	**Lab WorkOrder:**	K9HG61AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 14:22
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:58
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	**0.89**	0.15	1.0	J
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-10A(660-28502-6)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-006
Matrix:	WATER	**Lab WorkOrder:**	K9HG61AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 14:22
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:58
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	**0.38**	0.25	5.0	J
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**3.5**	0.20	1.0	
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**1.0**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-10A(660-28502-6)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-006
Matrix:	WATER	**Lab WorkOrder:**	K9HG61AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 14:22
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:58
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	90	70	127	
2037-26-5	Toluene-d8	106	80	125	
1868-53-7	Dibromofluoromethane	93	77	119	
460-00-4	4-Bromofluorobenzene	99	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-UFAG-1A(660-28502-7)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-007
Matrix:	WATER	**Lab WorkOrder:**	K9HG81AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 23:25
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:38
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	11	11	67	U
71-55-6	1,1,1-Trichloroethane	11	11	67	U
79-34-5	1,1,2,2-Tetrachloroethane	13	13	67	U
79-00-5	1,1,2-Trichloroethane	21	21	67	U
75-34-3	1,1-Dichloroethane	**47**	11	67	J
75-35-4	1,1-Dichloroethene	**250**	9.3	67	
563-58-6	1,1-Dichloropropene	10	10	67	U
87-61-6	1,2,3-Trichlorobenzene	12	12	67	U
96-18-4	1,2,3-Trichloropropane	51	51	170	U
120-82-1	1,2,4-Trichlorobenzene	21	21	67	U
95-63-6	1,2,4-Trimethylbenzene	9.3	9.3	67	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	100	100	330	U
106-93-4	1,2-Dibromoethane (EDB)	12	12	67	U
95-50-1	1,2-Dichlorobenzene	8.7	8.7	67	U
107-06-2	1,2-Dichloroethane	8.7	8.7	67	U
78-87-5	1,2-Dichloropropane	8.7	8.7	67	U
108-67-8	1,3,5-Trimethylbenzene	9.3	9.3	67	U
541-73-1	1,3-Dichlorobenzene	11	11	67	U
142-28-9	1,3-Dichloropropane	10	10	67	U
106-46-7	1,4-Dichlorobenzene	11	11	67	U
594-20-7	2,2-Dichloropropane	13	13	330	U
78-93-3	2-Butanone (MEK)	120	120	400	U
95-49-8	2-Chlorotoluene	11	11	67	U
591-78-6	2-Hexanone	93	93	330	U
106-43-4	4-Chlorotoluene	11	11	67	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-UFAG-1A(660-28502-7)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-007
Matrix:	WATER	**Lab WorkOrder:**	K9HG81AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 23:25
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:38
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	11	11	67	U
108-10-1	4-Methyl-2-pentanone	69	69	330	U
67-64-1	Acetone	130	130	670	U
75-05-8	Acetonitrile	640	640	2000	U
107-02-8	Acrolein	190	190	1300	U
107-13-1	Acrylonitrile	93	93	1300	U
107-05-1	Allyl chloride	11	11	130	U
71-43-2	Benzene	11	11	67	U
108-86-1	Bromobenzene	11	11	67	U
74-97-5	Bromochloromethane	6.7	6.7	67	U
75-27-4	Bromodichloromethane	11	11	67	U
75-25-2	Bromoform	13	13	67	U
74-83-9	Bromomethane	14	14	130	U
75-15-0	Carbon disulfide	30	30	130	U
56-23-5	Carbon tetrachloride	13	13	67	U
108-90-7	Chlorobenzene	11	11	67	U
124-48-1	Chlorodibromomethane	11	11	67	U
75-00-3	Chloroethane	27	27	130	U
67-66-3	Chloroform	11	11	67	U
74-87-3	Chloromethane	20	20	130	U
156-59-2	cis-1,2-Dichloroethene	**290**	10	67	
10061-01-5	cis-1,3-Dichloropropene	11	11	67	U
74-95-3	Dibromomethane	11	11	67	U
75-71-8	Dichlorodifluoromethane	21	21	130	U
64-17-5	Ethanol	6300	6300	20000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-UFAG-1A(660-28502-7)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-007
Matrix:	WATER	**Lab WorkOrder:**	K9HG81AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 23:25
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:38
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	80	80	330	U
100-41-4	Ethylbenzene	11	11	67	U
87-68-3	Hexachlorobutadiene	8.0	8.0	67	U
67-63-0	Isopropanol	870	870	2700	U
98-82-8	Isopropylbenzene	13	13	67	U
80-62-6	Methyl methacrylate	74	74	270	U
1634-04-4	Methyl tert-butyl ether	17	17	330	U
75-09-2	Methylene chloride	**40**	21	330	J
136777-61-2	m-Xylene & p-Xylene	23	23	130	U
91-20-3	Naphthalene	15	15	67	U
104-51-8	n-Butylbenzene	9.3	9.3	67	U
103-65-1	n-Propylbenzene	11	11	67	U
95-47-6	o-Xylene	13	13	67	U
135-98-8	sec-Butylbenzene	11	11	67	U
100-42-5	Styrene	11	11	67	U
75-65-0	tert-Butyl alcohol	250	250	3300	U
98-06-6	tert-Butylbenzene	11	11	67	U
127-18-4	Tetrachloroethene	**80**	13	67	
109-99-9	Tetrahydrofuran	140	140	470	U
108-88-3	Toluene	11	11	67	U
156-60-5	trans-1,2-Dichloroethene	10	10	67	U
10061-02-6	trans-1,3-Dichloropropene	13	13	200	U
79-01-6	Trichloroethene	**2000**	11	67	
75-69-4	Trichlorofluoromethane	19	19	130	U
76-13-1	Trichlorotrifluoroethane	53	53	200	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	EW-UFAG-1A(660-28502-7)
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D020286-007
Matrix:	WATER	**Lab WorkOrder:**	K9HG81AA
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 23:25
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 17:38
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	63	63	200	U
75-01-4	Vinyl chloride	27	27	67	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
2037-26-5	Toluene-d8	104	80	125	
1868-53-7	Dibromofluoromethane	105	77	119	
460-00-4	4-Bromofluorobenzene	100	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D070000-190B
Matrix:	WATER	**Lab WorkOrder:**	K9PQ61AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 11:59
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D070000-190B
Matrix:	WATER	**Lab WorkOrder:**	K9PQ61AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 11:59
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D070000-190B
Matrix:	WATER	**Lab WorkOrder:**	K9PQ61AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 11:59
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	95	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	94	77	119	
460-00-4	4-Bromofluorobenzene	102	78	118	

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25R19H

Lot/SDG Number: D9D020286 **QC Batch ID:** 9097190

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
MW-12A(660-28502-3)	K9HG21AA	99	101	99	102					0
IWI-1A(660-28502-4)	K9HG31AA	98	101	93	104					0
IWI-2A(660-28502-5)	K9HG41AA	91	100	92	104					0
IWI-2A(660-28502-5) MS	K9HG41AC	93	104	97	103					0
IWI-2A(660-28502-5) MSD	K9HG41AD	94	103	94	101					0
MW-10A(660-28502-6)	K9HG61AA	90	99	93	106					0
EW-UFAG-1A(660-28502-7)	K9HG81AA	99	100	105	104					0
MW-39A(660-28502-1)	K9HGL1AA	93	99	111	105					0
MW-38A(660-28502-2)	K9HGW1AA	96	100	109	103					0
INTRA-LAB BLANK	K9PQ61AA	95	102	94	102					0
CHECK SAMPLE	K9PQ61AC	93	102	94	102					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D070000-190C
Matrix:	WATER	**Lab WorkOrder:**	K9PQ61AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 11:41
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.56	91		72 - 120
Acetone	10.0	9.64	96		48 - 130
Ethylbenzene	5.00	5.43	109		78 - 120
Trichlorofluoromethane	5.00	5.63	113		63 - 135
Hexachlorobutadiene	5.00	6.05	121		73 - 123
2-Hexanone	10.0	9.34	93		57 - 121
Isopropylbenzene	5.00	4.85	97		71 - 120
4-Isopropyltoluene	5.00	5.04	101		76 - 120
Methylene chloride	5.00	4.70	94		71 - 120
4-Methyl-2-pentanone	10.0	9.85	99		65 - 120
Naphthalene	5.00	4.48	90		62 - 121
Benzene	5.00	4.97	99		77 - 120
2-Pentanone	10.0	11.7	117		42 - 120
n-Propylbenzene	5.00	5.46	109		76 - 120
Styrene	5.00	5.15	103		77 - 120
1,1,1,2-Tetrachloroethane	5.00	5.23	105		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.88	98		73 - 120
Tetrachloroethene	5.00	5.47	109		77 - 120
Toluene	5.00	5.13	103		73 - 120
1,2,3-Trichlorobenzene	5.00	5.45	109		66 - 123
1,2,4-Trichlorobenzene	5.00	4.90	98		73 - 121
1,1,1-Trichloroethane	5.00	5.57	111		78 - 120
1,1,2-Trichloroethane	5.00	5.00	100		76 - 120
Trichloroethene	5.00	5.34	107		78 - 122
1,2,3-Trichloropropane	5.00	4.63	93		72 - 120
1,2,4-Trimethylbenzene	5.00	5.23	105		77 - 120
1,3,5-Trimethylbenzene	5.00	5.39	108		77 - 120
Vinyl acetate	5.00	6.16	123		63 - 124
Vinyl chloride	5.00	6.27	125		49 - 136

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D070000-190C
Matrix:	WATER	**Lab WorkOrder:**	K9PQ61AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 11:41
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	5.30	106		77 - 120
Xylenes (total)	15.0	16.5	110		77 - 120
Methyl tert-butyl ether	10.0	10.1	101		58 - 120
m-Xylene & p-Xylene	10.0	11.2	112		78 - 120
Bromobenzene	5.00	5.24	105		75 - 120
Bromochloromethane	5.00	5.05	101		78 - 120
Bromodichloromethane	5.00	4.91	98		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.07	81		65 - 120
1,2-Dibromoethane (EDB)	5.00	5.00	100		77 - 120
2-Butanone (MEK)	10.0	9.08	91		57 - 120
Bromoform	5.00	4.52	90		74 - 121
Bromomethane	5.00	5.71	114		42 - 154
n-Butylbenzene	5.00	5.05	101		76 - 120
sec-Butylbenzene	5.00	5.47	109		80 - 120
tert-Butylbenzene	5.00	5.58	112		76 - 120
Carbon disulfide	5.00	4.53	91		56 - 120
Carbon tetrachloride	5.00	5.32	106		80 - 120
Chlorobenzene	5.00	5.07	101		78 - 120
Chlorodibromomethane	5.00	5.11	102		76 - 120
Chloroethane	5.00	6.02	120		51 - 133
2-Chloroethyl vinyl ether	5.00	4.72	94		17 - 150
Chloroform	5.00	5.03	101		78 - 120
Chloromethane	5.00	5.77	115		46 - 142
2-Chlorotoluene	5.00	5.59	112		76 - 120
4-Chlorotoluene	5.00	5.41	108		78 - 120
Dibromomethane	5.00	4.93	99		77 - 120
1,2-Dichlorobenzene	5.00	5.16	103		76 - 120
1,3-Dichlorobenzene	5.00	5.20	104		75 - 120
1,4-Dichlorobenzene	5.00	5.07	101		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D070000-190C
Matrix:	WATER	**Lab WorkOrder:**	K9PQ61AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 11:41
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	6.39	128		56 - 140
1,1-Dichloroethane	5.00	5.24	105		77 - 120
1,2-Dichloroethane	5.00	4.74	95		74 - 120
1,1-Dichloroethene	5.00	5.37	107		68 - 133
cis-1,2-Dichloroethene	5.00	5.16	103		75 - 120
trans-1,2-Dichloroethene	5.00	5.49	110		80 - 120
1,2-Dichloroethene (total)	10.0	10.6	106		78 - 120
1,2-Dichloropropane	5.00	4.99	100		76 - 120
1,3-Dichloropropane	5.00	4.86	97		75 - 120
2,2-Dichloropropane	5.00	5.37	107		72 - 128
1,1-Dichloropropene	5.00	5.25	105		75 - 120
cis-1,3-Dichloropropene	5.00	4.59	92		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	93	70	127	
2037-26-5	Toluene-d8	102	80	125	
1868-53-7	Dibromofluoromethane	94	77	119	
460-00-4	4-Bromofluorobenzene	102	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**MS Lab Sample ID:**	D9D020286-005S
Matrix:	WATER	**MS Lab WorkOrder:**	K9HG41AC
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 12:52
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	5.00		100		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	5.34		107		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.61		92		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.59		92		76 - 120
1,1-Dichloroethane	5.00	2.9		7.79		97		77 - 120
1,1-Dichloroethene	5.00	4.8		9.61		96		68 - 133
1,1-Dichloropropene	5.00	0.15	U	5.01		100		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.83		97		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	4.21		84		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.55		91		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	4.93		99		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	1.5	U	4.04		81		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.62		92		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.84		97		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.42		88		74 - 120
1,2-Dichloroethene (total)	10.0	15		25.0		97		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.59		92		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	5.13		103		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.90		98		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.60		92		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.84		97		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.09		102		72 - 128
2-Butanone (MEK)	10.0	1.8	U	8.25		82		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	4.51		90		17 - 150
2-Chlorotoluene	5.00	0.17	U	5.24		105		76 - 120
2-Hexanone	10.0	1.4	U	8.85		89		57 - 121
2-Pentanone	10.0	0.82	U	11.4		114		42 - 120
4-Chlorotoluene	5.00	0.17	U	5.14		103		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.83		97		76 - 120
4-Methyl-2-pentanone	10.0	1.0	U	9.22		92		65 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**MS Lab Sample ID:**	D9D020286-005S
Matrix:	WATER	**MS Lab WorkOrder:**	K9HG41AC
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 12:52
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Acetone	10.0	1.9	U	8.73		87		48 - 130
Benzene	5.00	0.16	U	4.57		91		77 - 120
Bromobenzene	5.00	0.17	U	4.82		96		75 - 120
Bromochloromethane	5.00	0.10	U	4.54		91		78 - 120
Bromodichloromethane	5.00	0.17	U	4.65		93		78 - 120
Bromoform	5.00	0.19	U	4.21		84		74 - 121
Bromomethane	5.00	0.21	U	5.23		105		42 - 154
Carbon disulfide	5.00	0.45	U	4.48		90		56 - 120
Carbon tetrachloride	5.00	0.19	U	5.06		101		80 - 120
Chlorobenzene	5.00	0.17	U	4.83		97		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.64		93		76 - 120
Chloroethane	5.00	0.41	U	5.52		110		51 - 133
Chloroform	5.00	0.16	U	4.75		95		78 - 120
Chloromethane	5.00	0.30	U	5.20		104		46 - 142
cis-1,2-Dichloroethene	5.00	15		19.8		90		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.35		87		76 - 120
Dibromomethane	5.00	0.17	U	4.54		91		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	6.23		125		56 - 140
Ethylbenzene	5.00	0.16	U	5.23		105		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.68		114		73 - 123
Isopropylbenzene	5.00	0.19	U	4.69		94		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	10.6		106		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	9.17		92		58 - 120
Methylene chloride	5.00	0.32	U	4.29		86		71 - 120
n-Butylbenzene	5.00	0.14	U	4.83		97		76 - 120
n-Propylbenzene	5.00	0.16	U	5.23		105		76 - 120
Naphthalene	5.00	0.22	U	4.10		82		62 - 121
o-Xylene	5.00	0.19	U	5.14		103		77 - 120
sec-Butylbenzene	5.00	0.17	U	5.25		105		80 - 120
Styrene	5.00	0.17	U	4.87		97		77 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**MS Lab Sample ID:**	D9D020286-005S
Matrix:	WATER	**MS Lab WorkOrder:**	K9HG41AC
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 12:52
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
tert-Butylbenzene	5.00	0.16	U	4.96		99		76 - 120
Tetrachloroethene	5.00	0.20	U	5.22		104		77 - 120
Toluene	5.00	0.17	U	4.85		97		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	5.23		105		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.19		84		72 - 120
Trichloroethene	5.00	21		25.1		78		78 - 122
Trichlorofluoromethane	5.00	0.29	U	5.34		107		63 - 135
Vinyl acetate	5.00	0.94	U	5.59		112		63 - 124
Vinyl chloride	5.00	8.2		13.2		100		49 - 136
Xylenes (total)	15.0	0.19	U	15.7		105		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	93	70	127	
460-00-4	4-Bromofluorobenzene	104	78	118	
1868-53-7	Dibromofluoromethane	97	77	119	
2037-26-5	Toluene-d8	103	80	125	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**MSD Lab Sample ID:**	D9D020286-005D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9HG41AD
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 13:11
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.82		96		3.6		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.63		93		14		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.42		88		4.3		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.45		89		3.1		76 - 120	21
1,1-Dichloroethane	5.00	2.9		7.71		95		0.94		77 - 120	21
1,1-Dichloroethene	5.00	4.8		10.2		108		6.0		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.66		93		7.1		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	5.00		100		3.4		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	4.07		81		3.5		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	4.60		92		0.95		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	4.76		95		3.5		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	1.5	U	3.83		77		5.4		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.52		90		2.2		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.67		93		3.6		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.29		86		3.0		74 - 120	20
1,2-Dichloroethene (total)	10.0	15		25.2		99		0.85		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.54		91		1.1		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	4.88		98		5.1		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.71		94		3.9		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.44		89		3.3		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.63		93		4.4		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	4.87		97		4.4		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	8.23		82		0.23		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	4.76		95		5.4		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	5.07		101		3.3		76 - 120	20

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**MSD Lab Sample ID:**	D9D020286-005D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9HG41AD
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 13:11
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	8.85		88		0.090		57 - 121	25
2-Pentanone	10.0	0.82	U	11.4		114		0.79		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.81		96		6.8		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	4.58		92		5.2		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	9.27		93		0.57		65 - 120	22
Acetone	10.0	1.9	U	9.05		91		3.7		48 - 130	41
Benzene	5.00	0.16	U	4.47		89		2.2		77 - 120	20
Bromobenzene	5.00	0.17	U	4.68		94		3.0		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.44		89		2.3		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.58		92		1.5		78 - 120	20
Bromoform	5.00	0.19	U	3.96		79		5.9		74 - 121	21
Bromomethane	5.00	0.21	U	5.19		104		0.79		42 - 154	24
Carbon disulfide	5.00	0.45	U	4.40		88		1.8		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	4.82		96		4.9		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.62		92		4.5		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.57		91		1.4		76 - 120	20
Chloroethane	5.00	0.41	U	5.27		105		4.5		51 - 133	25
Chloroform	5.00	0.16	U	4.52		90		5.0		78 - 120	20
Chloromethane	5.00	0.30	U	5.16		103		0.87		46 - 142	24
cis-1,2-Dichloroethene	5.00	15		20.2		98		2.2		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.26		85		2.2		76 - 120	20
Dibromomethane	5.00	0.17	U	4.48		90		1.3		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	6.08		122		2.4		56 - 140	24
Ethylbenzene	5.00	0.16	U	5.00		100		4.4		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	5.57		111		1.9		73 - 123	25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	IWI-2A(660-28502-5)
Lot/SDG Number:	D9D020286	**MSD Lab Sample ID:**	D9D020286-005D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9HG41AD
% Moisture:	N/A	**Date/Time Collected:**	03/30/09 09:51
Basis:	Wet	**Date/Time Received:**	04/02/09 09:00
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/06/09 08:16
QC Batch ID:	9097190	**Date/Time Analyzed:**	04/06/09 13:11
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	4.46		89		5.0		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	10.2		102		4.1		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	8.98		90		2.1		58 - 120	21
Methylene chloride	5.00	0.32	U	4.12		82		4.1		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.61		92		4.8		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.93		99		5.9		76 - 120	20
Naphthalene	5.00	0.22	U	4.10		82		0.040		62 - 121	32
o-Xylene	5.00	0.19	U	4.91		98		4.5		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	4.91		98		6.8		80 - 120	21
Styrene	5.00	0.17	U	4.64		93		4.8		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	4.70		94		5.3		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.96		99		5.2		77 - 120	20
Toluene	5.00	0.17	U	4.63		93		4.6		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	5.00		100		4.4		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.16		83		0.79		72 - 120	20
Trichloroethene	5.00	21		25.5		87		1.8		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	5.26		105		1.6		63 - 135	20
Vinyl acetate	5.00	0.94	U	5.65		113		1.1		63 - 124	24
Vinyl chloride	5.00	8.2		14.0		116		5.8		49 - 136	24
Xylenes (total)	15.0	0.19	U	15.1		101		4.2		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	94	70	127	
460-00-4	4-Bromofluorobenzene	103	78	118	
1868-53-7	Dibromofluoromethane	94	77	119	
2037-26-5	Toluene-d8	101	80	125	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	R0359.D
Lot/SDG Number:	D9D020286	**Lab Sample ID:**	D9D070000-190B
Matrix:	WATER	**Lab Work Order:**	K9PQ61AA
Analysis Method:	8260B	**Date/Time Extracted:**	04/06/09 08:16
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	04/06/09 11:59
QC Batch ID:	9097190	**Instrument ID:**	R1

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
MW-12A(660-28502-3)	K9HG21AA	R0359.D	04/06/09	16:24
IWI-1A(660-28502-4)	K9HG31AA	R0361.D	04/06/09	17:01
IWI-2A(660-28502-5)	K9HG41AA	R0354.D	04/06/09	12:18
IWI-2A(660-28502-5) MS	K9HG41AC S	R0355.D	04/06/09	12:52
IWI-2A(660-28502-5) MSD	K9HG41AD D	R0356.D	04/06/09	13:11
MW-10A(660-28502-6)	K9HG61AA	R0364.D	04/06/09	17:58
EW-UFAG-1A(660-28502-7)	K9HG81AA	R0363.D	04/06/09	17:38
MW-39A(660-28502-1)	K9HGL1AA	R0357.D	04/06/09	15:47
MW-38A(660-28502-2)	K9HGW1AA	R0358.D	04/06/09	16:05
CHECK SAMPLE	K9PQ61AC C	R0352.D	04/06/09	11:41

Serial Number 12212

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil GAS

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Savannah & Denver
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil Gas Parameters	80038055.0030.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ⊘

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B (Savannah)	REQUIRED ANALYSIS: Volatiles (Denver)	PRESERVATIVE: HCl	PRESERVATIVE: none	REMARKS
								NUMBER OF CONTAINERS SUBMITTED				
3/30/09	1145	MW-39A	G	X				3	3			
	1115	MW-38A						3	3			
	1340	MW-12A						3	3			
	1042	IWI-1A						3	3			
	0951	IWI-2A						3	3			
	1422	MW-10A						3	3			
V	1125	EW-UFAG-1A	V	V				3	3			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430	YES ○ NO ○		660-2850?	2.3°C cu 07	

TAL8240-660 (1207)

Page 73 of 75

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28502-1
SDG Number: 660-28502

Login Number: 28502
List Source: TestAmerica Tampa
Creator: Volz, Charles
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.3 degrees C CU-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28502-1
SDG Number: 660-28502

Login Number: 28502
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 04/02/09 10:44 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 660-28585-1

SDG Number: 660-28585

Job Description: Tallevast- Soil Gas

For:
ARCADIS
6723 Towpath Road
PO BOX 66
Syracuse, NY 13214

Attention: Donald Sauda

Approved for release.
Natalie Tafuni
Project Manager I
4/21/2009 2:34 PM

Natalie Tafuni
Project Manager I
natalie.tafuni@testamericainc.com
04/21/2009

cc: Mr. Joe Houser
Sarah Medearis
Mr. Don Reed
Kathy Thalman
Gary Wroblewski

Methods: FDEP, DOH Certification #: TestAmerica Savannah E87052
TestAmerica Denver E87667

These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

Job Narrative
660-J28585-1

Comments
No additional comments.

Receipt
The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): RW-2A (660-28585-5).

All other samples were received in good condition within temperature requirements.

8260B
The following samples were diluted due to the abundance of non-target analytes: PZ-LSAS-2A, PZ-LSAS-3A, PZ-LSAS-4A, PZ-LSAS-5A, PZ-LSAS-6A. Elevated reporting limits (RLs) are provided.

There are certain compounds which have GCTLs(Groundwater Clean-up Target Levels) which are so low that FDEP acknowledges that the technology is not available to meet those levels. Among those compounds are Acrylonitrile and Benzyl Chloride by method 8260B. As long as the lab is able to meet the FDEP PQL guidance levels in the " Guidance to Selection of Analytical Methods and Evaluation of Practical Quantitation Limits" document, the data will be accepted by FDEP. The GCTL for Acrylonitrile is 0.20 ug/l, and the FDEP PQL guidance level for Acrylonitrile is 20 ug/l.
The GCTL for Benzyl Chloride is 0.060 ug/l, and the FDEP PQL guidance level for Benzyl Chloride is 1.0 ug/l.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL SAV	SW846 8260B	
Purge and Trap	TAL SAV		SW846 5030B
SW846 8260B VOC	TAL DEN	SW846 8260B	

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Method	Analyst	Analyst ID
SW846 8260B	Bearden, Robert	RB

SAMPLE SUMMARY

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-28585-1	MW-4A	Water	04/02/2009 1020	04/02/2009 1845
660-28585-2	MW-7SA	Water	04/02/2009 1655	04/02/2009 1845
660-28585-3	MW-7DA	Water	04/02/2009 1640	04/02/2009 1845
660-28585-4	MW-3A	Water	04/02/2009 1215	04/02/2009 1845
660-28585-5	RW-2A	Water	04/02/2009 1325	04/02/2009 1845
660-28585-6	PZ-LSAS-7A	Water	04/02/2009 1444	04/02/2009 1845
660-28585-7	RW-1A	Water	04/02/2009 1203	04/02/2009 1845
660-28585-8	PZ-LSAS-2A	Water	04/02/2009 1110	04/02/2009 1845
660-28585-9	PZ-LSAS-1A	Water	04/02/2009 1115	04/02/2009 1845
660-28585-10	PZ-LSAS-3A	Water	04/02/2009 0835	04/02/2009 1845
660-28585-11	PZ-LSAS-4A	Water	04/02/2009 0956	04/02/2009 1845
660-28585-12	PZ-LSAS-5A	Water	04/02/2009 0945	04/02/2009 1845
660-28585-13	MW-123A	Water	04/02/2009 1458	04/02/2009 1845
660-28585-14	PZ-LSAS-6A	Water	04/02/2009 1545	04/02/2009 1845
660-28585-15	MW-5A	Water	04/02/2009 1346	04/02/2009 1845
660-28585-16	MW-6A	Water	04/02/2009 1454	04/02/2009 1845
660-28585-17	MW-84A	Water	04/02/2009 1609	04/02/2009 1845

SAMPLE RESULTS

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-4A

Lab Sample ID: 660-28585-1
Client Matrix: Water

Date Sampled: 04/02/2009 1020
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1253
Date Prepared: 04/09/2009 1253

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8621.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	102	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-7SA

Lab Sample ID: 660-28585-2
Client Matrix: Water

Date Sampled: 04/02/2009 1655
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1313
Date Prepared: 04/09/2009 1313

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8622.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	104	75 - 121
4-Bromofluorobenzene	95	75 - 120
Toluene-d8 (Surr)	102	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-7DA

Lab Sample ID: 660-28585-3
Client Matrix: Water

Date Sampled: 04/02/2009 1640
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1333
Date Prepared: 04/09/2009 1333

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8623.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	101	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-3A

Lab Sample ID: 660-28585-4
Client Matrix: Water

Date Sampled: 04/02/2009 1215
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1352
Date Prepared: 04/09/2009 1352

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8624.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	104	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: RW-2A

Lab Sample ID: 660-28585-5
Client Matrix: Water

Date Sampled: 04/02/2009 1325
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1412
Date Prepared: 04/09/2009 1412

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8625.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	102	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: PZ-LSAS-7A

Lab Sample ID: 660-28585-6
Client Matrix: Water

Date Sampled: 04/02/2009 1444
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1432
Date Prepared: 04/09/2009 1432

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8626.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	103	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	100	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: RW-1A

Lab Sample ID: 660-28585-7
Client Matrix: Water

Date Sampled: 04/02/2009 1203
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1452
Date Prepared: 04/09/2009 1452

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8627.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	102	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	101	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: PZ-LSAS-2A

Lab Sample ID: 660-28585-8
Client Matrix: Water

Date Sampled: 04/02/2009 1110
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/09/2009 1650
Date Prepared: 04/09/2009 1650

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8633.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	1.2	U	1.2	5.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	100	75 - 121
4-Bromofluorobenzene	96	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: PZ-LSAS-1A

Lab Sample ID: 660-28585-9
Client Matrix: Water

Date Sampled: 04/02/2009 1115
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1511
Date Prepared: 04/09/2009 1511

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8628.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	102	75 - 121
4-Bromofluorobenzene	92	75 - 120
Toluene-d8 (Surr)	102	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: PZ-LSAS-3A

Lab Sample ID: 660-28585-10
Client Matrix: Water

Date Sampled: 04/02/2009 0835
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/09/2009 1710
Date Prepared: 04/09/2009 1710

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8634.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	1.2	U	1.2	5.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	99	75 - 121
4-Bromofluorobenzene	98	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: PZ-LSAS-4A

Lab Sample ID: 660-28585-11
Client Matrix: Water

Date Sampled: 04/02/2009 0956
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/09/2009 1730
Date Prepared: 04/09/2009 1730

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8635.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	1.2	U	1.2	5.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	95	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: PZ-LSAS-5A

Lab Sample ID: 660-28585-12
Client Matrix: Water

Date Sampled: 04/02/2009 0945
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/09/2009 1750
Date Prepared: 04/09/2009 1750

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8636.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	1.2	U	1.2	5.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	96	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-123A

Lab Sample ID: 660-28585-13
Client Matrix: Water

Date Sampled: 04/02/2009 1458
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1531
Date Prepared: 04/09/2009 1531

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8629.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	104	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	102	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: PZ-LSAS-6A

Lab Sample ID: 660-28585-14
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/09/2009 1810
Date Prepared: 04/09/2009 1810

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8637.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	1.2	U	1.2	5.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	98	75 - 121
4-Bromofluorobenzene	100	75 - 120
Toluene-d8 (Surr)	102	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-5A

Lab Sample ID: 660-28585-15
Client Matrix: Water

Date Sampled: 04/02/2009 1346
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1551
Date Prepared: 04/09/2009 1551

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8630.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	103	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-6A

Lab Sample ID: 660-28585-16
Client Matrix: Water

Date Sampled: 04/02/2009 1454
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1611
Date Prepared: 04/09/2009 1611

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8631.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	103	75 - 121
4-Bromofluorobenzene	91	75 - 120
Toluene-d8 (Surr)	103	75 - 120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Client Sample ID: MW-84A

Lab Sample ID: 660-28585-17
Client Matrix: Water

Date Sampled: 04/02/2009 1609
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/09/2009 1631
Date Prepared: 04/09/2009 1631

Analysis Batch: 680-134844

Instrument ID: GC/MS Volatiles - O
Lab File ID: o8632.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	%Rec	Acceptance Limits
Dibromofluoromethane	104	75 - 121
4-Bromofluorobenzene	93	75 - 120
Toluene-d8 (Surr)	101	75 - 120

DATA REPORTING QUALIFIERS

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates that the compound was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	BFB %Rec	TOL %Rec
660-28585-1	MW-4A	100	94	102
660-28585-2	MW-7SA	104	95	102
660-28585-3	MW-7DA	101	93	104
660-28585-4	MW-3A	104	92	103
660-28585-5	RW-2A	100	93	102
660-28585-6	PZ-LSAS-7A	103	94	100
660-28585-7	RW-1A	102	94	101
660-28585-8	PZ-LSAS-2A	100	96	104
660-28585-9	PZ-LSAS-1A	102	92	102
660-28585-10	PZ-LSAS-3A	99	98	104
660-28585-11	PZ-LSAS-4A	98	95	104
660-28585-12	PZ-LSAS-5A	98	96	103
660-28585-13	MW-123A	104	94	102
660-28585-14	PZ-LSAS-6A	98	100	102
660-28585-15	MW-5A	103	94	103
660-28585-16	MW-6A	103	91	103
660-28585-17	MW-84A	104	93	101
MB 680-134844/6		101	94	104
LCS 680-134844/3		103	98	103
LCSD 680-134844/4		101	97	102

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane	75-121
BFB = 4-Bromofluorobenzene	75-120
TOL = Toluene-d8 (Surr)	75-120

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Method Blank - Batch: 680-134844

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 680-134844/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 1219
Date Prepared: 04/09/2009 1219

Analysis Batch: 680-134844
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq677.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Benzyl chloride	0.24	U	0.24	1.0

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane	101	75 - 121
4-Bromofluorobenzene	94	75 - 120
Toluene-d8 (Surr)	104	75 - 120

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 680-134844

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 680-134844/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 1048
Date Prepared: 04/09/2009 1048

Analysis Batch: 680-134844
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq673.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 680-134844/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 04/09/2009 1120
Date Prepared: 04/09/2009 1120

Analysis Batch: 680-134844
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq674.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Benzyl chloride	127	125	50 - 150	2	50		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Dibromofluoromethane	103	101	75 - 121
4-Bromofluorobenzene	98	97	75 - 120
Toluene-d8 (Surr)	103	102	75 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS

Job Number: 660-28585-1
Sdg Number: 660-28585

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 680-134844

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 680-134844/3	Units:	ug/L	LCSD Lab Sample ID:	LCSD 680-134844/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	04/09/2009 1048			Date Analyzed:	04/09/2009 1120
Date Prepared:	04/09/2009 1048			Date Prepared:	04/09/2009 1120

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzyl chloride	50.0	50.0	63.6	62.5

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Project Number: 660-28585

TestAmerica Denver Lot #: D9D040124

Natalie Tafuni

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

TestAmerica Laboratories, Inc

DiLea Griego
Project Manager

April 20, 2009

Case Narrative
Lot D9D040124

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. The test results relate only to the samples in this report.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

Sample Arrival and Receipt
Seventeen samples were received under chain of custody on April 4, 2009. The samples were received in good condition at a temperature of 2.4°C.

GC/MS Volatiles – Method 8260B
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high concentrations of target analytes, several samples had to be performed at dilutions. The reporting limits have been adjusted relative to the dilution required.

MS/MSD analyses were performed on sample MW-7SA (660-28585-2). The MSD exhibited spike compound recoveries outside the QC control limits for chloroethane, dichlorodifluoromethane and vinyl chloride. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Carbon disulfide, ethyl acetate and ethanol were recovered outside the QC control limits, biased high or low, in the Initial Calibration Verification (ICV) standard. This is an indicator that data may be biased high. As no detectable concentrations of these compounds are present in the associated samples, corrective action is deemed unnecessary.

No other anomalies were observed.

Quality Control Definitions of Terms

Term	Definition
Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. A LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. An LCSD is a second Laboratory Control Sample.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MS/MSDs are carried throughout the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.
Sample Duplicate	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Method Detection Limit "MDL"	The method detection limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from replicate analyses of low level standards in a typical representative matrix.
Reporting Limit "RL"	The TestAmerica reporting limit is normally the lowest level at which measurements become quantitatively meaningful, ie., the quantitation limit, which is approximately three times the MDL. Some projects require RLs that are less than the quantitation limit to achieve particular maximum contaminant levels (MCLs) or relevant and appropriate requirements (ARARs), but RLs cannot be less than the statistically determined MDL.

Quality Control Definitions of Qualifiers

Qualifier	Definition
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
a	Spiked analyte recovery is outside control limits.
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
DIL	The concentration is estimated or not reported due to dilution.
E	Estimated result. Result concentration exceeds the calibration range.
G	Inorganics: Elevated reporting limit. The reporting limit is elevated due to matrix interference.
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
ND	The analyte was not detected at the MDL concentration and with a measurable degree of confidence can be said not to be present at or above the RL concentration.
p	Relative percent difference (RPD) is outside stated control limits.
Q	Elevated reporting limit. The reporting limit is elevated due to high analyte levels.
V	General Chemistry: Elevated reporting limit due to limited sample volume.
Wa	Post digestion spike recovery fell between 40-85% due to matrix interference.
Wb	Post digestion spike recovery fell between 115-150% due to matrix interference.
I	Percent recovery is estimated since the results exceeded the calibration range.
T1	A tentatively identified compound that did not generate a spectral match of 80% or greater. Typically called "unknown"
T2	A tentatively identified compound with a spectral match of 80% or better
T3	A tentatively identified compound that was calibrated for by the lab, but not on the client target analyte list.
IC	Diluted due to high inorganic chloride.

EXECUTIVE SUMMARY - Detection Highlights

D9D040124

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW-4A(660-28585-1) 04/02/09 10:20 001				
Acetone	49 J	100	ug/L	SW846 8260B
1,1-Dichloroethane	10	10	ug/L	SW846 8260B
1,1-Dichloroethene	5.6 J	10	ug/L	SW846 8260B
Methylene chloride	5.1 J	50	ug/L	SW846 8260B
Trichloroethene	27	10	ug/L	SW846 8260B
Trichlorotrifluoroethane	420	30	ug/L	SW846 8260B
MW-7DA(660-28585-3) 04/02/09 16:40 003				
Tetrachloroethene	0.23 J	1.0	ug/L	SW846 8260B
MW-3A(660-28585-4) 04/02/09 12:15 004				
Trichloroethene	0.23 J	1.0	ug/L	SW846 8260B
RW-2A(660-28585-5) 04/02/09 13:25 005				
1,1-Dichloroethane	0.73 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5.0	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.26 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	37	1.0	ug/L	SW846 8260B
Trichloroethene	9.1	1.0	ug/L	SW846 8260B
PZ-LSAS-7A(660-28585-6) 04/02/09 14:44 006				
1,1-Dichloroethane	37 J	67	ug/L	SW846 8260B
cis-1,2-Dichloroethene	130	67	ug/L	SW846 8260B
1,1-Dichloroethene	67	67	ug/L	SW846 8260B
Methylene chloride	33 J	330	ug/L	SW846 8260B
Trichloroethene	2700	67	ug/L	SW846 8260B
RW-1A(660-28585-7) 04/02/09 12:03 007				
1,1-Dichloroethane	110	3.3	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.88 J	3.3	ug/L	SW846 8260B
1,1-Dichloroethene	6.6	3.3	ug/L	SW846 8260B
Methylene chloride	1.6 J	17	ug/L	SW846 8260B
Tetrachloroethene	0.88 J	3.3	ug/L	SW846 8260B
Trichloroethene	2.1 J	3.3	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D9D040124

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PZ-LSAS-2A(660-28585-8) 04/02/09 11:10 008				
1,1-Dichloroethane	26 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	310	100	ug/L	SW846 8260B
1,1-Dichloroethene	100	100	ug/L	SW846 8260B
Methylene chloride	55 J	500	ug/L	SW846 8260B
Trichloroethene	4500	100	ug/L	SW846 8260B
PZ-LSAS-1A(660-28585-9) 04/02/09 11:15 009				
Acetone	3.4 J	10	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.46 J	1.0	ug/L	SW846 8260B
Trichloroethene	12	1.0	ug/L	SW846 8260B
PZ-LSAS-3A(660-28585-10) 04/02/09 08:35 010				
1,1-Dichloroethane	40 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	68 J	100	ug/L	SW846 8260B
1,1-Dichloroethene	130	100	ug/L	SW846 8260B
Methylene chloride	64 J	500	ug/L	SW846 8260B
Trichloroethene	3900	100	ug/L	SW846 8260B
Trichlorotrifluoroethane	550	300	ug/L	SW846 8260B
PZ-LSAS-4A(660-28585-11) 04/02/09 09:56 011				
cis-1,2-Dichloroethene	690	100	ug/L	SW846 8260B
1,1-Dichloroethene	120	100	ug/L	SW846 8260B
Methylene chloride	47 J	500	ug/L	SW846 8260B
Trichloroethene	5000	100	ug/L	SW846 8260B
PZ-LSAS-5A(660-28585-12) 04/02/09 09:45 012				
1,1-Dichloroethane	26 J	100	ug/L	SW846 8260B
cis-1,2-Dichloroethene	370	100	ug/L	SW846 8260B
1,1-Dichloroethene	150	100	ug/L	SW846 8260B
Methylene chloride	50 J	500	ug/L	SW846 8260B
Trichloroethene	5200	100	ug/L	SW846 8260B
MW-123A(660-28585-13) 04/02/09 14:58 013				
1,1-Dichloroethane	0.16 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	1.3	1.0	ug/L	SW846 8260B
Methylene chloride	0.45 J	5.0	ug/L	SW846 8260B
Trichloroethene	1.7	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D9D040124

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
PZ-LSAS-6A(660-28585-14) 04/02/09 15:45 014				
cis-1,2-Dichloroethene	490 J	500	ug/L	SW846 8260B
1,1-Dichloroethene	180 J	500	ug/L	SW846 8260B
Methylene chloride	280 J	2500	ug/L	SW846 8260B
Trichloroethene	22000	500	ug/L	SW846 8260B
MW-5A(660-28585-15) 04/02/09 13:46 015				
Methylene chloride	0.41 J	5.0	ug/L	SW846 8260B
MW-6A(660-28585-16) 04/02/09 14:54 016				
Methylene chloride	0.45 J	5.0	ug/L	SW846 8260B
MW-84A(660-28585-17) 04/02/09 16:09 017				
1,1-Dichloroethane	0.24 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.44 J	1.0	ug/L	SW846 8260B
Methylene chloride	0.54 J	5.0	ug/L	SW846 8260B

METHODS SUMMARY

D9D040124

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D9D040124

ANALYTICAL METHOD	ANALYST	ANALYST ID
SW846 8260B	Hayley E. Waterland	005423

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D9D040124

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K9LKJ	001	MW-4A(660-28585-1)	04/02/09	10:20
K9LKL	002	MW-7SA(660-28585-2)	04/02/09	16:55
K9LKN	003	MW-7DA(660-28585-3)	04/02/09	16:40
K9LKQ	004	MW-3A(660-28585-4)	04/02/09	12:15
K9LKT	005	RW-2A(660-28585-5)	04/02/09	13:25
K9LKV	006	PZ-LSAS-7A(660-28585-6)	04/02/09	14:44
K9LK3	007	RW-1A(660-28585-7)	04/02/09	12:03
K9LK5	008	PZ-LSAS-2A(660-28585-8)	04/02/09	11:10
K9LK9	009	PZ-LSAS-1A(660-28585-9)	04/02/09	11:15
K9LLD	010	PZ-LSAS-3A(660-28585-10)	04/02/09	08:35
K9LLG	011	PZ-LSAS-4A(660-28585-11)	04/02/09	09:56
K9LLL	012	PZ-LSAS-5A(660-28585-12)	04/02/09	09:45
K9LLR	013	MW-123A(660-28585-13)	04/02/09	14:58
K9LL0	014	PZ-LSAS-6A(660-28585-14)	04/02/09	15:45
K9LL3	015	MW-5A(660-28585-15)	04/02/09	13:46
K9LL7	016	MW-6A(660-28585-16)	04/02/09	14:54
K9LMD	017	MW-84A(660-28585-17)	04/02/09	16:09

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

QC DATA ASSOCIATION SUMMARY

D9D040124

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8260B		9097245	9098090
002	WATER	SW846 8260B		9097245	9098090
003	WATER	SW846 8260B		9097245	9098090
004	WATER	SW846 8260B		9097245	9098090
005	WATER	SW846 8260B		9097245	9098090
006	WATER	SW846 8260B		9097245	9098090
007	WATER	SW846 8260B		9097245	9098090
008	WATER	SW846 8260B		9097245	9098090
009	WATER	SW846 8260B		9097245	9098090
010	WATER	SW846 8260B		9097245	9098090
011	WATER	SW846 8260B		9097245	9098090
012	WATER	SW846 8260B		9097245	9098090
013	WATER	SW846 8260B		9097245	9098090
014	WATER	SW846 8260B		9097245	9098090
015	WATER	SW846 8260B		9097245	9098090
016	WATER	SW846 8260B		9097245	9098090
017	WATER	SW846 8260B		9097245	9098090

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

GC/MS Volatiles

CLP-Like Forms

Lot ID: D9D040124

Client: TestAmerica Tampa

Method: 8260B

Associated Samples: -001 through -017

Batch: 9097245

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-4A(660-28585-1)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-001
Matrix:	WATER	**Lab WorkOrder:**	K9LKJ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 10:20
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:10
Sample Aliquot:	2 mL	**Instrument ID:**	R1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	1.7	1.7	10	U
71-55-6	1,1,1-Trichloroethane	1.6	1.6	10	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	2.0	10	U
79-00-5	1,1,2-Trichloroethane	3.2	3.2	10	U
75-34-3	1,1-Dichloroethane	**10**	1.6	10	
75-35-4	1,1-Dichloroethene	**5.6**	1.4	10	J
563-58-6	1,1-Dichloropropene	1.5	1.5	10	U
87-61-6	1,2,3-Trichlorobenzene	1.8	1.8	10	U
96-18-4	1,2,3-Trichloropropane	7.7	7.7	25	U
120-82-1	1,2,4-Trichlorobenzene	3.2	3.2	10	U
95-63-6	1,2,4-Trimethylbenzene	1.4	1.4	10	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	15	15	50	U
106-93-4	1,2-Dibromoethane (EDB)	1.8	1.8	10	U
95-50-1	1,2-Dichlorobenzene	1.3	1.3	10	U
107-06-2	1,2-Dichloroethane	1.3	1.3	10	U
78-87-5	1,2-Dichloropropane	1.3	1.3	10	U
108-67-8	1,3,5-Trimethylbenzene	1.4	1.4	10	U
541-73-1	1,3-Dichlorobenzene	1.6	1.6	10	U
142-28-9	1,3-Dichloropropane	1.5	1.5	10	U
106-46-7	1,4-Dichlorobenzene	1.6	1.6	10	U
594-20-7	2,2-Dichloropropane	2.0	2.0	50	U
78-93-3	2-Butanone (MEK)	18	18	60	U
95-49-8	2-Chlorotoluene	1.7	1.7	10	U
591-78-6	2-Hexanone	14	14	50	U
106-43-4	4-Chlorotoluene	1.7	1.7	10	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-4A(660-28585-1)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-001
Matrix:	WATER	**Lab WorkOrder:**	K9LKJ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 10:20
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:10
Sample Aliquot:	2 mL	**Instrument ID:**	R1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	1.7	1.7	10	U
108-10-1	4-Methyl-2-pentanone	10	10	50	U
67-64-1	Acetone	49	19	100	J
75-05-8	Acetonitrile	96	96	300	U
107-02-8	Acrolein	28	28	200	U
107-13-1	Acrylonitrile	14	14	200	U
107-05-1	Allyl chloride	1.7	1.7	20	U
71-43-2	Benzene	1.6	1.6	10	U
108-86-1	Bromobenzene	1.7	1.7	10	U
74-97-5	Bromochloromethane	1.0	1.0	10	U
75-27-4	Bromodichloromethane	1.7	1.7	10	U
75-25-2	Bromoform	1.9	1.9	10	U
74-83-9	Bromomethane	2.1	2.1	20	U
75-15-0	Carbon disulfide	4.5	4.5	20	U
56-23-5	Carbon tetrachloride	1.9	1.9	10	U
108-90-7	Chlorobenzene	1.7	1.7	10	U
124-48-1	Chlorodibromomethane	1.7	1.7	10	U
75-00-3	Chloroethane	4.1	4.1	20	U
67-66-3	Chloroform	1.6	1.6	10	U
74-87-3	Chloromethane	3.0	3.0	20	U
156-59-2	cis-1,2-Dichloroethene	1.5	1.5	10	U
10061-01-5	cis-1,3-Dichloropropene	1.6	1.6	10	U
74-95-3	Dibromomethane	1.7	1.7	10	U
75-71-8	Dichlorodifluoromethane	3.1	3.1	20	U
64-17-5	Ethanol	940	940	3000	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-4A(660-28585-1)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-001
Matrix:	WATER	**Lab WorkOrder:**	K9LKJ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 10:20
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:10
Sample Aliquot:	2 mL	**Instrument ID:**	R1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	12	12	50	U
100-41-4	Ethylbenzene	1.6	1.6	10	U
87-68-3	Hexachlorobutadiene	1.2	1.2	10	U
67-63-0	Isopropanol	130	130	400	U
98-82-8	Isopropylbenzene	1.9	1.9	10	U
80-62-6	Methyl methacrylate	11	11	40	U
1634-04-4	Methyl tert-butyl ether	2.5	2.5	50	U
75-09-2	Methylene chloride	**5.1**	3.2	50	J
136777-61-2	m-Xylene & p-Xylene	3.4	3.4	20	U
91-20-3	Naphthalene	2.2	2.2	10	U
104-51-8	n-Butylbenzene	1.4	1.4	10	U
103-65-1	n-Propylbenzene	1.6	1.6	10	U
95-47-6	o-Xylene	1.9	1.9	10	U
135-98-8	sec-Butylbenzene	1.7	1.7	10	U
100-42-5	Styrene	1.7	1.7	10	U
75-65-0	tert-Butyl alcohol	38	38	500	U
98-06-6	tert-Butylbenzene	1.6	1.6	10	U
127-18-4	Tetrachloroethene	2.0	2.0	10	U
109-99-9	Tetrahydrofuran	20	20	70	U
108-88-3	Toluene	1.7	1.7	10	U
156-60-5	trans-1,2-Dichloroethene	1.5	1.5	10	U
10061-02-6	trans-1,3-Dichloropropene	1.9	1.9	30	U
79-01-6	Trichloroethene	**27**	1.6	10	
75-69-4	Trichlorofluoromethane	2.9	2.9	20	U
76-13-1	Trichlorotrifluoroethane	**420**	7.9	30	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-4A(660-28585-1)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-001
Matrix:	WATER	**Lab WorkOrder:**	K9LKJ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 10:20
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:10
Sample Aliquot:	2 mL	**Instrument ID:**	R1
Dilution Factor:	10		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	9.4	9.4	30	U
75-01-4	Vinyl chloride	4.0	4.0	10	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	70	127	
2037-26-5	Toluene-d8	105	80	125	
1868-53-7	Dibromofluoromethane	96	77	119	
460-00-4	4-Bromofluorobenzene	112	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-002
Matrix:	WATER	**Lab WorkOrder:**	K9LKL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-002
Matrix:	WATER	**Lab WorkOrder:**	K9LKL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-002
Matrix:	WATER	**Lab WorkOrder:**	K9LKL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-002
Matrix:	WATER	**Lab WorkOrder:**	K9LKL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:18
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
2037-26-5	Toluene-d8	105	80	125	
1868-53-7	Dibromofluoromethane	100	77	119	
460-00-4	4-Bromofluorobenzene	104	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7DA(660-28585-3)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-003
Matrix:	WATER	**Lab WorkOrder:**	K9LKN1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:40
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:37
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7DA(660-28585-3)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-003
Matrix:	WATER	**Lab WorkOrder:**	K9LKN1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:40
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:37
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7DA(660-28585-3)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-003
Matrix:	WATER	**Lab WorkOrder:**	K9LKN1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:40
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:37
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**0.23**	0.20	1.0	J
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7DA(660-28585-3)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-003
Matrix:	WATER	**Lab WorkOrder:**	K9LKN1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:40
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:37
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	70	127	
2037-26-5	Toluene-d8	106	80	125	
1868-53-7	Dibromofluoromethane	109	77	119	
460-00-4	4-Bromofluorobenzene	104	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-3A(660-28585-4)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-004
Matrix:	WATER	**Lab WorkOrder:**	K9LKQ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:56
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-3A(660-28585-4)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-004
Matrix:	WATER	**Lab WorkOrder:**	K9LKQ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:56
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-3A(660-28585-4)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-004
Matrix:	WATER	**Lab WorkOrder:**	K9LKQ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:56
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**0.23**	0.16	1.0	J
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-3A(660-28585-4)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-004
Matrix:	WATER	**Lab WorkOrder:**	K9LKQ1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 13:56
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	70	127	
2037-26-5	Toluene-d8	104	80	125	
1868-53-7	Dibromofluoromethane	109	77	119	
460-00-4	4-Bromofluorobenzene	103	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-2A(660-28585-5)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-005
Matrix:	WATER	**Lab WorkOrder:**	K9LKT1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:25
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:14
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**0.73**	0.16	1.0	J
75-35-4	1,1-Dichloroethene	**0.26**	0.14	1.0	J
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-2A(660-28585-5)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-005
Matrix:	WATER	**Lab WorkOrder:**	K9LKT1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:25
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:14
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	**5.0**	0.15	1.0	
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-2A(660-28585-5)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-005
Matrix:	WATER	**Lab WorkOrder:**	K9LKT1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:25
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:14
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	**37**	0.20	1.0	
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**9.1**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-2A(660-28585-5)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-005
Matrix:	WATER	**Lab WorkOrder:**	K9LKT1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:25
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:14
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	103	70	127	
2037-26-5	Toluene-d8	103	80	125	
1868-53-7	Dibromofluoromethane	109	77	119	
460-00-4	4-Bromofluorobenzene	114	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-7A(660-28585-6)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-006
Matrix:	WATER	**Lab WorkOrder:**	K9LKV1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:44
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:29
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	11	11	67	U
71-55-6	1,1,1-Trichloroethane	11	11	67	U
79-34-5	1,1,2,2-Tetrachloroethane	13	13	67	U
79-00-5	1,1,2-Trichloroethane	21	21	67	U
75-34-3	1,1-Dichloroethane	**37**	11	67	J
75-35-4	1,1-Dichloroethene	**67**	9.3	67	
563-58-6	1,1-Dichloropropene	10	10	67	U
87-61-6	1,2,3-Trichlorobenzene	12	12	67	U
96-18-4	1,2,3-Trichloropropane	51	51	170	U
120-82-1	1,2,4-Trichlorobenzene	21	21	67	U
95-63-6	1,2,4-Trimethylbenzene	9.3	9.3	67	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	100	100	330	U
106-93-4	1,2-Dibromoethane (EDB)	12	12	67	U
95-50-1	1,2-Dichlorobenzene	8.7	8.7	67	U
107-06-2	1,2-Dichloroethane	8.7	8.7	67	U
78-87-5	1,2-Dichloropropane	8.7	8.7	67	U
108-67-8	1,3,5-Trimethylbenzene	9.3	9.3	67	U
541-73-1	1,3-Dichlorobenzene	11	11	67	U
142-28-9	1,3-Dichloropropane	10	10	67	U
106-46-7	1,4-Dichlorobenzene	11	11	67	U
594-20-7	2,2-Dichloropropane	13	13	330	U
78-93-3	2-Butanone (MEK)	120	120	400	U
95-49-8	2-Chlorotoluene	11	11	67	U
591-78-6	2-Hexanone	93	93	330	U
106-43-4	4-Chlorotoluene	11	11	67	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-7A(660-28585-6)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-006
Matrix:	WATER	**Lab WorkOrder:**	K9LKV1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:44
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:29
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	11	11	67	U
108-10-1	4-Methyl-2-pentanone	69	69	330	U
67-64-1	Acetone	130	130	670	U
75-05-8	Acetonitrile	640	640	2000	U
107-02-8	Acrolein	190	190	1300	U
107-13-1	Acrylonitrile	93	93	1300	U
107-05-1	Allyl chloride	11	11	130	U
71-43-2	Benzene	11	11	67	U
108-86-1	Bromobenzene	11	11	67	U
74-97-5	Bromochloromethane	6.7	6.7	67	U
75-27-4	Bromodichloromethane	11	11	67	U
75-25-2	Bromoform	13	13	67	U
74-83-9	Bromomethane	14	14	130	U
75-15-0	Carbon disulfide	30	30	130	U
56-23-5	Carbon tetrachloride	13	13	67	U
108-90-7	Chlorobenzene	11	11	67	U
124-48-1	Chlorodibromomethane	11	11	67	U
75-00-3	Chloroethane	27	27	130	U
67-66-3	Chloroform	11	11	67	U
74-87-3	Chloromethane	20	20	130	U
156-59-2	cis-1,2-Dichloroethene	**130**	10	67	
10061-01-5	cis-1,3-Dichloropropene	11	11	67	U
74-95-3	Dibromomethane	11	11	67	U
75-71-8	Dichlorodifluoromethane	21	21	130	U
64-17-5	Ethanol	6300	6300	20000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-7A(660-28585-6)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-006
Matrix:	WATER	**Lab WorkOrder:**	K9LKV1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:44
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:29
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	80	80	330	U
100-41-4	Ethylbenzene	11	11	67	U
87-68-3	Hexachlorobutadiene	8.0	8.0	67	U
67-63-0	Isopropanol	870	870	2700	U
98-82-8	Isopropylbenzene	13	13	67	U
80-62-6	Methyl methacrylate	74	74	270	U
1634-04-4	Methyl tert-butyl ether	17	17	330	U
75-09-2	Methylene chloride	**33**	21	330	J
136777-61-2	m-Xylene & p-Xylene	23	23	130	U
91-20-3	Naphthalene	15	15	67	U
104-51-8	n-Butylbenzene	9.3	9.3	67	U
103-65-1	n-Propylbenzene	11	11	67	U
95-47-6	o-Xylene	13	13	67	U
135-98-8	sec-Butylbenzene	11	11	67	U
100-42-5	Styrene	11	11	67	U
75-65-0	tert-Butyl alcohol	250	250	3300	U
98-06-6	tert-Butylbenzene	11	11	67	U
127-18-4	Tetrachloroethene	13	13	67	U
109-99-9	Tetrahydrofuran	140	140	470	U
108-88-3	Toluene	11	11	67	U
156-60-5	trans-1,2-Dichloroethene	10	10	67	U
10061-02-6	trans-1,3-Dichloropropene	13	13	200	U
79-01-6	Trichloroethene	**2700**	11	67	
75-69-4	Trichlorofluoromethane	19	19	130	U
76-13-1	Trichlorotrifluoroethane	53	53	200	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-7A(660-28585-6)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-006
Matrix:	WATER	**Lab WorkOrder:**	K9LKV1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:44
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:29
Sample Aliquot:	0.3 mL	**Instrument ID:**	R1
Dilution Factor:	66.67		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	63	63	200	U
75-01-4	Vinyl chloride	27	27	67	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	70	127	
2037-26-5	Toluene-d8	106	80	125	
1868-53-7	Dibromofluoromethane	107	77	119	
460-00-4	4-Bromofluorobenzene	114	78	118	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-1A(660-28585-7)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-007
Matrix:	WATER	**Lab WorkOrder:**	K9LK31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:03
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:47
Sample Aliquot:	6 mL	**Instrument ID:**	R1
Dilution Factor:	3.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.57	0.57	3.3	U
71-55-6	1,1,1-Trichloroethane	0.53	0.53	3.3	U
79-34-5	1,1,2,2-Tetrachloroethane	0.67	0.67	3.3	U
79-00-5	1,1,2-Trichloroethane	1.1	1.1	3.3	U
75-34-3	1,1-Dichloroethane	**110**	0.53	3.3	
75-35-4	1,1-Dichloroethene	**6.6**	0.47	3.3	
563-58-6	1,1-Dichloropropene	0.50	0.50	3.3	U
87-61-6	1,2,3-Trichlorobenzene	0.60	0.60	3.3	U
96-18-4	1,2,3-Trichloropropane	2.6	2.6	8.3	U
120-82-1	1,2,4-Trichlorobenzene	1.1	1.1	3.3	U
95-63-6	1,2,4-Trimethylbenzene	0.47	0.47	3.3	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	5.0	5.0	17	U
106-93-4	1,2-Dibromoethane (EDB)	0.60	0.60	3.3	U
95-50-1	1,2-Dichlorobenzene	0.43	0.43	3.3	U
107-06-2	1,2-Dichloroethane	0.43	0.43	3.3	U
78-87-5	1,2-Dichloropropane	0.43	0.43	3.3	U
108-67-8	1,3,5-Trimethylbenzene	0.47	0.47	3.3	U
541-73-1	1,3-Dichlorobenzene	0.53	0.53	3.3	U
142-28-9	1,3-Dichloropropane	0.50	0.50	3.3	U
106-46-7	1,4-Dichlorobenzene	0.53	0.53	3.3	U
594-20-7	2,2-Dichloropropane	0.67	0.67	17	U
78-93-3	2-Butanone (MEK)	6.1	6.1	20	U
95-49-8	2-Chlorotoluene	0.57	0.57	3.3	U
591-78-6	2-Hexanone	4.7	4.7	17	U
106-43-4	4-Chlorotoluene	0.57	0.57	3.3	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-1A(660-28585-7)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-007
Matrix:	WATER	**Lab WorkOrder:**	K9LK31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:03
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:47
Sample Aliquot:	6 mL	**Instrument ID:**	R1
Dilution Factor:	3.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.57	0.57	3.3	U
108-10-1	4-Methyl-2-pentanone	3.5	3.5	17	U
67-64-1	Acetone	6.3	6.3	33	U
75-05-8	Acetonitrile	32	32	100	U
107-02-8	Acrolein	9.3	9.3	67	U
107-13-1	Acrylonitrile	4.7	4.7	67	U
107-05-1	Allyl chloride	0.57	0.57	6.7	U
71-43-2	Benzene	0.53	0.53	3.3	U
108-86-1	Bromobenzene	0.57	0.57	3.3	U
74-97-5	Bromochloromethane	0.33	0.33	3.3	U
75-27-4	Bromodichloromethane	0.57	0.57	3.3	U
75-25-2	Bromoform	0.63	0.63	3.3	U
74-83-9	Bromomethane	0.70	0.70	6.7	U
75-15-0	Carbon disulfide	1.5	1.5	6.7	U
56-23-5	Carbon tetrachloride	0.63	0.63	3.3	U
108-90-7	Chlorobenzene	0.57	0.57	3.3	U
124-48-1	Chlorodibromomethane	0.57	0.57	3.3	U
75-00-3	Chloroethane	1.4	1.4	6.7	U
67-66-3	Chloroform	0.53	0.53	3.3	U
74-87-3	Chloromethane	1.0	1.0	6.7	U
156-59-2	cis-1,2-Dichloroethene	**0.88**	0.50	3.3	J
10061-01-5	cis-1,3-Dichloropropene	0.53	0.53	3.3	U
74-95-3	Dibromomethane	0.57	0.57	3.3	U
75-71-8	Dichlorodifluoromethane	1.0	1.0	6.7	U
64-17-5	Ethanol	310	310	1000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-1A(660-28585-7)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-007
Matrix:	WATER	**Lab WorkOrder:**	K9LK31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:03
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:47
Sample Aliquot:	6 mL	**Instrument ID:**	R1
Dilution Factor:	3.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	4.0	4.0	17	U
100-41-4	Ethylbenzene	0.53	0.53	3.3	U
87-68-3	Hexachlorobutadiene	0.40	0.40	3.3	U
67-63-0	Isopropanol	43	43	130	U
98-82-8	Isopropylbenzene	0.63	0.63	3.3	U
80-62-6	Methyl methacrylate	3.7	3.7	13	U
1634-04-4	Methyl tert-butyl ether	0.83	0.83	17	U
75-09-2	Methylene chloride	**1.6**	1.1	17	J
136777-61-2	m-Xylene & p-Xylene	1.1	1.1	6.7	U
91-20-3	Naphthalene	0.73	0.73	3.3	U
104-51-8	n-Butylbenzene	0.47	0.47	3.3	U
103-65-1	n-Propylbenzene	0.53	0.53	3.3	U
95-47-6	o-Xylene	0.63	0.63	3.3	U
135-98-8	sec-Butylbenzene	0.57	0.57	3.3	U
100-42-5	Styrene	0.57	0.57	3.3	U
75-65-0	tert-Butyl alcohol	13	13	170	U
98-06-6	tert-Butylbenzene	0.53	0.53	3.3	U
127-18-4	Tetrachloroethene	**0.88**	0.67	3.3	J
109-99-9	Tetrahydrofuran	6.8	6.8	23	U
108-88-3	Toluene	0.57	0.57	3.3	U
156-60-5	trans-1,2-Dichloroethene	0.50	0.50	3.3	U
10061-02-6	trans-1,3-Dichloropropene	0.63	0.63	10	U
79-01-6	Trichloroethene	**2.1**	0.53	3.3	J
75-69-4	Trichlorofluoromethane	0.97	0.97	6.7	U
76-13-1	Trichlorotrifluoroethane	2.6	2.6	10	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	RW-1A(660-28585-7)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-007
Matrix:	WATER	**Lab WorkOrder:**	K9LK31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 12:03
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 15:47
Sample Aliquot:	6 mL	**Instrument ID:**	R1
Dilution Factor:	3.33		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	3.1	3.1	10	U
75-01-4	Vinyl chloride	1.3	1.3	3.3	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	70	127	
2037-26-5	Toluene-d8	103	80	125	
1868-53-7	Dibromofluoromethane	101	77	119	
460-00-4	4-Bromofluorobenzene	103	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-2A(660-28585-8)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-008
Matrix:	WATER	**Lab WorkOrder:**	K9LK51AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:10
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:06
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	17	17	100	U
71-55-6	1,1,1-Trichloroethane	16	16	100	U
79-34-5	1,1,2,2-Tetrachloroethane	20	20	100	U
79-00-5	1,1,2-Trichloroethane	32	32	100	U
75-34-3	1,1-Dichloroethane	**26**	16	100	J
75-35-4	1,1-Dichloroethene	**100**	14	100	
563-58-6	1,1-Dichloropropene	15	15	100	U
87-61-6	1,2,3-Trichlorobenzene	18	18	100	U
96-18-4	1,2,3-Trichloropropane	77	77	250	U
120-82-1	1,2,4-Trichlorobenzene	32	32	100	U
95-63-6	1,2,4-Trimethylbenzene	14	14	100	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	150	150	500	U
106-93-4	1,2-Dibromoethane (EDB)	18	18	100	U
95-50-1	1,2-Dichlorobenzene	13	13	100	U
107-06-2	1,2-Dichloroethane	13	13	100	U
78-87-5	1,2-Dichloropropane	13	13	100	U
108-67-8	1,3,5-Trimethylbenzene	14	14	100	U
541-73-1	1,3-Dichlorobenzene	16	16	100	U
142-28-9	1,3-Dichloropropane	15	15	100	U
106-46-7	1,4-Dichlorobenzene	16	16	100	U
594-20-7	2,2-Dichloropropane	20	20	500	U
78-93-3	2-Butanone (MEK)	180	180	600	U
95-49-8	2-Chlorotoluene	17	17	100	U
591-78-6	2-Hexanone	140	140	500	U
106-43-4	4-Chlorotoluene	17	17	100	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-2A(660-28585-8)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-008
Matrix:	WATER	**Lab WorkOrder:**	K9LK51AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:10
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:06
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	17	17	100	U
108-10-1	4-Methyl-2-pentanone	100	100	500	U
67-64-1	Acetone	190	190	1000	U
75-05-8	Acetonitrile	960	960	3000	U
107-02-8	Acrolein	280	280	2000	U
107-13-1	Acrylonitrile	140	140	2000	U
107-05-1	Allyl chloride	17	17	200	U
71-43-2	Benzene	16	16	100	U
108-86-1	Bromobenzene	17	17	100	U
74-97-5	Bromochloromethane	10	10	100	U
75-27-4	Bromodichloromethane	17	17	100	U
75-25-2	Bromoform	19	19	100	U
74-83-9	Bromomethane	21	21	200	U
75-15-0	Carbon disulfide	45	45	200	U
56-23-5	Carbon tetrachloride	19	19	100	U
108-90-7	Chlorobenzene	17	17	100	U
124-48-1	Chlorodibromomethane	17	17	100	U
75-00-3	Chloroethane	41	41	200	U
67-66-3	Chloroform	16	16	100	U
74-87-3	Chloromethane	30	30	200	U
156-59-2	cis-1,2-Dichloroethene	**310**	15	100	
10061-01-5	cis-1,3-Dichloropropene	16	16	100	U
74-95-3	Dibromomethane	17	17	100	U
75-71-8	Dichlorodifluoromethane	31	31	200	U
64-17-5	Ethanol	9400	9400	30000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-2A(660-28585-8)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-008
Matrix:	WATER	**Lab WorkOrder:**	K9LK51AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:10
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:06
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	120	120	500	U
100-41-4	Ethylbenzene	16	16	100	U
87-68-3	Hexachlorobutadiene	12	12	100	U
67-63-0	Isopropanol	1300	1300	4000	U
98-82-8	Isopropylbenzene	19	19	100	U
80-62-6	Methyl methacrylate	110	110	400	U
1634-04-4	Methyl tert-butyl ether	25	25	500	U
75-09-2	Methylene chloride	**55**	32	500	J
136777-61-2	m-Xylene & p-Xylene	34	34	200	U
91-20-3	Naphthalene	22	22	100	U
104-51-8	n-Butylbenzene	14	14	100	U
103-65-1	n-Propylbenzene	16	16	100	U
95-47-6	o-Xylene	19	19	100	U
135-98-8	sec-Butylbenzene	17	17	100	U
100-42-5	Styrene	17	17	100	U
75-65-0	tert-Butyl alcohol	380	380	5000	U
98-06-6	tert-Butylbenzene	16	16	100	U
127-18-4	Tetrachloroethene	20	20	100	U
109-99-9	Tetrahydrofuran	200	200	700	U
108-88-3	Toluene	17	17	100	U
156-60-5	trans-1,2-Dichloroethene	15	15	100	U
10061-02-6	trans-1,3-Dichloropropene	19	19	300	U
79-01-6	Trichloroethene	**4500**	16	100	
75-69-4	Trichlorofluoromethane	29	29	200	U
76-13-1	Trichlorotrifluoroethane	79	79	300	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-2A(660-28585-8)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-008
Matrix:	WATER	**Lab WorkOrder:**	K9LK51AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:10
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:06
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	94	94	300	U
75-01-4	Vinyl chloride	40	40	100	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	70	127	
2037-26-5	Toluene-d8	107	80	125	
1868-53-7	Dibromofluoromethane	101	77	119	
460-00-4	4-Bromofluorobenzene	110	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-1A(660-28585-9)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-009
Matrix:	WATER	**Lab WorkOrder:**	K9LK91AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	**0.46**	0.14	1.0	J
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-1A(660-28585-9)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-009
Matrix:	WATER	**Lab WorkOrder:**	K9LK91AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	**3.4**	1.9	10	J
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	**1.5**	0.15	1.0	
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-1A(660-28585-9)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-009
Matrix:	WATER	**Lab WorkOrder:**	K9LK91AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**12**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-1A(660-28585-9)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-009
Matrix:	WATER	**Lab WorkOrder:**	K9LK91AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 11:15
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:24
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	70	127	
2037-26-5	Toluene-d8	107	80	125	
1868-53-7	Dibromofluoromethane	119	77	119	
460-00-4	4-Bromofluorobenzene	109	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-3A(660-28585-10)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-010
Matrix:	WATER	**Lab WorkOrder:**	K9LLD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 08:35
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:43
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	17	17	100	U
71-55-6	1,1,1-Trichloroethane	16	16	100	U
79-34-5	1,1,2,2-Tetrachloroethane	20	20	100	U
79-00-5	1,1,2-Trichloroethane	32	32	100	U
75-34-3	1,1-Dichloroethane	**40**	16	100	J
75-35-4	1,1-Dichloroethene	**130**	14	100	
563-58-6	1,1-Dichloropropene	15	15	100	U
87-61-6	1,2,3-Trichlorobenzene	18	18	100	U
96-18-4	1,2,3-Trichloropropane	77	77	250	U
120-82-1	1,2,4-Trichlorobenzene	32	32	100	U
95-63-6	1,2,4-Trimethylbenzene	14	14	100	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	150	150	500	U
106-93-4	1,2-Dibromoethane (EDB)	18	18	100	U
95-50-1	1,2-Dichlorobenzene	13	13	100	U
107-06-2	1,2-Dichloroethane	13	13	100	U
78-87-5	1,2-Dichloropropane	13	13	100	U
108-67-8	1,3,5-Trimethylbenzene	14	14	100	U
541-73-1	1,3-Dichlorobenzene	16	16	100	U
142-28-9	1,3-Dichloropropane	15	15	100	U
106-46-7	1,4-Dichlorobenzene	16	16	100	U
594-20-7	2,2-Dichloropropane	20	20	500	U
78-93-3	2-Butanone (MEK)	180	180	600	U
95-49-8	2-Chlorotoluene	17	17	100	U
591-78-6	2-Hexanone	140	140	500	U
106-43-4	4-Chlorotoluene	17	17	100	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-3A(660-28585-10)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-010
Matrix:	WATER	**Lab WorkOrder:**	K9LLD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 08:35
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:43
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	17	17	100	U
108-10-1	4-Methyl-2-pentanone	100	100	500	U
67-64-1	Acetone	190	190	1000	U
75-05-8	Acetonitrile	960	960	3000	U
107-02-8	Acrolein	280	280	2000	U
107-13-1	Acrylonitrile	140	140	2000	U
107-05-1	Allyl chloride	17	17	200	U
71-43-2	Benzene	16	16	100	U
108-86-1	Bromobenzene	17	17	100	U
74-97-5	Bromochloromethane	10	10	100	U
75-27-4	Bromodichloromethane	17	17	100	U
75-25-2	Bromoform	19	19	100	U
74-83-9	Bromomethane	21	21	200	U
75-15-0	Carbon disulfide	45	45	200	U
56-23-5	Carbon tetrachloride	19	19	100	U
108-90-7	Chlorobenzene	17	17	100	U
124-48-1	Chlorodibromomethane	17	17	100	U
75-00-3	Chloroethane	41	41	200	U
67-66-3	Chloroform	16	16	100	U
74-87-3	Chloromethane	30	30	200	U
156-59-2	cis-1,2-Dichloroethene	**68**	15	100	J
10061-01-5	cis-1,3-Dichloropropene	16	16	100	U
74-95-3	Dibromomethane	17	17	100	U
75-71-8	Dichlorodifluoromethane	31	31	200	U
64-17-5	Ethanol	9400	9400	30000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-3A(660-28585-10)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-010
Matrix:	WATER	**Lab WorkOrder:**	K9LLD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 08:35
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:43
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	120	120	500	U
100-41-4	Ethylbenzene	16	16	100	U
87-68-3	Hexachlorobutadiene	12	12	100	U
67-63-0	Isopropanol	1300	1300	4000	U
98-82-8	Isopropylbenzene	19	19	100	U
80-62-6	Methyl methacrylate	110	110	400	U
1634-04-4	Methyl tert-butyl ether	25	25	500	U
75-09-2	Methylene chloride	**64**	32	500	J
136777-61-2	m-Xylene & p-Xylene	34	34	200	U
91-20-3	Naphthalene	22	22	100	U
104-51-8	n-Butylbenzene	14	14	100	U
103-65-1	n-Propylbenzene	16	16	100	U
95-47-6	o-Xylene	19	19	100	U
135-98-8	sec-Butylbenzene	17	17	100	U
100-42-5	Styrene	17	17	100	U
75-65-0	tert-Butyl alcohol	380	380	5000	U
98-06-6	tert-Butylbenzene	16	16	100	U
127-18-4	Tetrachloroethene	20	20	100	U
109-99-9	Tetrahydrofuran	200	200	700	U
108-88-3	Toluene	17	17	100	U
156-60-5	trans-1,2-Dichloroethene	15	15	100	U
10061-02-6	trans-1,3-Dichloropropene	19	19	300	U
79-01-6	Trichloroethene	**3900**	16	100	
75-69-4	Trichlorofluoromethane	29	29	200	U
76-13-1	Trichlorotrifluoroethane	**550**	79	300	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-3A(660-28585-10)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-010
Matrix:	WATER	**Lab WorkOrder:**	K9LLD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 08:35
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 16:43
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	94	94	300	U
75-01-4	Vinyl chloride	40	40	100	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	107	70	127	
2037-26-5	Toluene-d8	109	80	125	
1868-53-7	Dibromofluoromethane	114	77	119	
460-00-4	4-Bromofluorobenzene	100	78	118	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-4A(660-28585-11)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-011
Matrix:	WATER	**Lab WorkOrder:**	K9LLG1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:56
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	17	17	100	U
71-55-6	1,1,1-Trichloroethane	16	16	100	U
79-34-5	1,1,2,2-Tetrachloroethane	20	20	100	U
79-00-5	1,1,2-Trichloroethane	32	32	100	U
75-34-3	1,1-Dichloroethane	16	16	100	U
75-35-4	1,1-Dichloroethene	**120**	14	100	
563-58-6	1,1-Dichloropropene	15	15	100	U
87-61-6	1,2,3-Trichlorobenzene	18	18	100	U
96-18-4	1,2,3-Trichloropropane	77	77	250	U
120-82-1	1,2,4-Trichlorobenzene	32	32	100	U
95-63-6	1,2,4-Trimethylbenzene	14	14	100	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	150	150	500	U
106-93-4	1,2-Dibromoethane (EDB)	18	18	100	U
95-50-1	1,2-Dichlorobenzene	13	13	100	U
107-06-2	1,2-Dichloroethane	13	13	100	U
78-87-5	1,2-Dichloropropane	13	13	100	U
108-67-8	1,3,5-Trimethylbenzene	14	14	100	U
541-73-1	1,3-Dichlorobenzene	16	16	100	U
142-28-9	1,3-Dichloropropane	15	15	100	U
106-46-7	1,4-Dichlorobenzene	16	16	100	U
594-20-7	2,2-Dichloropropane	20	20	500	U
78-93-3	2-Butanone (MEK)	180	180	600	U
95-49-8	2-Chlorotoluene	17	17	100	U
591-78-6	2-Hexanone	140	140	500	U
106-43-4	4-Chlorotoluene	17	17	100	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-4A(660-28585-11)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-011
Matrix:	WATER	**Lab WorkOrder:**	K9LLG1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:56
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	17	17	100	U
108-10-1	4-Methyl-2-pentanone	100	100	500	U
67-64-1	Acetone	190	190	1000	U
75-05-8	Acetonitrile	960	960	3000	U
107-02-8	Acrolein	280	280	2000	U
107-13-1	Acrylonitrile	140	140	2000	U
107-05-1	Allyl chloride	17	17	200	U
71-43-2	Benzene	16	16	100	U
108-86-1	Bromobenzene	17	17	100	U
74-97-5	Bromochloromethane	10	10	100	U
75-27-4	Bromodichloromethane	17	17	100	U
75-25-2	Bromoform	19	19	100	U
74-83-9	Bromomethane	21	21	200	U
75-15-0	Carbon disulfide	45	45	200	U
56-23-5	Carbon tetrachloride	19	19	100	U
108-90-7	Chlorobenzene	17	17	100	U
124-48-1	Chlorodibromomethane	17	17	100	U
75-00-3	Chloroethane	41	41	200	U
67-66-3	Chloroform	16	16	100	U
74-87-3	Chloromethane	30	30	200	U
156-59-2	cis-1,2-Dichloroethene	**690**	15	100	
10061-01-5	cis-1,3-Dichloropropene	16	16	100	U
74-95-3	Dibromomethane	17	17	100	U
75-71-8	Dichlorodifluoromethane	31	31	200	U
64-17-5	Ethanol	9400	9400	30000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-4A(660-28585-11)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-011
Matrix:	WATER	**Lab WorkOrder:**	K9LLG1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:56
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	120	120	500	U
100-41-4	Ethylbenzene	16	16	100	U
87-68-3	Hexachlorobutadiene	12	12	100	U
67-63-0	Isopropanol	1300	1300	4000	U
98-82-8	Isopropylbenzene	19	19	100	U
80-62-6	Methyl methacrylate	110	110	400	U
1634-04-4	Methyl tert-butyl ether	25	25	500	U
75-09-2	Methylene chloride	**47**	32	500	J
136777-61-2	m-Xylene & p-Xylene	34	34	200	U
91-20-3	Naphthalene	22	22	100	U
104-51-8	n-Butylbenzene	14	14	100	U
103-65-1	n-Propylbenzene	16	16	100	U
95-47-6	o-Xylene	19	19	100	U
135-98-8	sec-Butylbenzene	17	17	100	U
100-42-5	Styrene	17	17	100	U
75-65-0	tert-Butyl alcohol	380	380	5000	U
98-06-6	tert-Butylbenzene	16	16	100	U
127-18-4	Tetrachloroethene	20	20	100	U
109-99-9	Tetrahydrofuran	200	200	700	U
108-88-3	Toluene	17	17	100	U
156-60-5	trans-1,2-Dichloroethene	15	15	100	U
10061-02-6	trans-1,3-Dichloropropene	19	19	300	U
79-01-6	Trichloroethene	**5000**	16	100	
75-69-4	Trichlorofluoromethane	29	29	200	U
76-13-1	Trichlorotrifluoroethane	79	79	300	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-4A(660-28585-11)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-011
Matrix:	WATER	**Lab WorkOrder:**	K9LLG1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:56
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:01
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	94	94	300	U
75-01-4	Vinyl chloride	40	40	100	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	104	70	127	
2037-26-5	Toluene-d8	106	80	125	
1868-53-7	Dibromofluoromethane	111	77	119	
460-00-4	4-Bromofluorobenzene	107	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-5A(660-28585-12)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-012
Matrix:	WATER	**Lab WorkOrder:**	K9LLL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:20
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	17	17	100	U
71-55-6	1,1,1-Trichloroethane	16	16	100	U
79-34-5	1,1,2,2-Tetrachloroethane	20	20	100	U
79-00-5	1,1,2-Trichloroethane	32	32	100	U
75-34-3	1,1-Dichloroethane	**26**	16	100	J
75-35-4	1,1-Dichloroethene	**150**	14	100	
563-58-6	1,1-Dichloropropene	15	15	100	U
87-61-6	1,2,3-Trichlorobenzene	18	18	100	U
96-18-4	1,2,3-Trichloropropane	77	77	250	U
120-82-1	1,2,4-Trichlorobenzene	32	32	100	U
95-63-6	1,2,4-Trimethylbenzene	14	14	100	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	150	150	500	U
106-93-4	1,2-Dibromoethane (EDB)	18	18	100	U
95-50-1	1,2-Dichlorobenzene	13	13	100	U
107-06-2	1,2-Dichloroethane	13	13	100	U
78-87-5	1,2-Dichloropropane	13	13	100	U
108-67-8	1,3,5-Trimethylbenzene	14	14	100	U
541-73-1	1,3-Dichlorobenzene	16	16	100	U
142-28-9	1,3-Dichloropropane	15	15	100	U
106-46-7	1,4-Dichlorobenzene	16	16	100	U
594-20-7	2,2-Dichloropropane	20	20	500	U
78-93-3	2-Butanone (MEK)	180	180	600	U
95-49-8	2-Chlorotoluene	17	17	100	U
591-78-6	2-Hexanone	140	140	500	U
106-43-4	4-Chlorotoluene	17	17	100	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-5A(660-28585-12)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-012
Matrix:	WATER	**Lab WorkOrder:**	K9LLL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:20
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	17	17	100	U
108-10-1	4-Methyl-2-pentanone	100	100	500	U
67-64-1	Acetone	190	190	1000	U
75-05-8	Acetonitrile	960	960	3000	U
107-02-8	Acrolein	280	280	2000	U
107-13-1	Acrylonitrile	140	140	2000	U
107-05-1	Allyl chloride	17	17	200	U
71-43-2	Benzene	16	16	100	U
108-86-1	Bromobenzene	17	17	100	U
74-97-5	Bromochloromethane	10	10	100	U
75-27-4	Bromodichloromethane	17	17	100	U
75-25-2	Bromoform	19	19	100	U
74-83-9	Bromomethane	21	21	200	U
75-15-0	Carbon disulfide	45	45	200	U
56-23-5	Carbon tetrachloride	19	19	100	U
108-90-7	Chlorobenzene	17	17	100	U
124-48-1	Chlorodibromomethane	17	17	100	U
75-00-3	Chloroethane	41	41	200	U
67-66-3	Chloroform	16	16	100	U
74-87-3	Chloromethane	30	30	200	U
156-59-2	cis-1,2-Dichloroethene	**370**	15	100	
10061-01-5	cis-1,3-Dichloropropene	16	16	100	U
74-95-3	Dibromomethane	17	17	100	U
75-71-8	Dichlorodifluoromethane	31	31	200	U
64-17-5	Ethanol	9400	9400	30000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-5A(660-28585-12)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-012
Matrix:	WATER	**Lab WorkOrder:**	K9LLL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:20
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	120	120	500	U
100-41-4	Ethylbenzene	16	16	100	U
87-68-3	Hexachlorobutadiene	12	12	100	U
67-63-0	Isopropanol	1300	1300	4000	U
98-82-8	Isopropylbenzene	19	19	100	U
80-62-6	Methyl methacrylate	110	110	400	U
1634-04-4	Methyl tert-butyl ether	25	25	500	U
75-09-2	Methylene chloride	**50**	32	500	J
136777-61-2	m-Xylene & p-Xylene	34	34	200	U
91-20-3	Naphthalene	22	22	100	U
104-51-8	n-Butylbenzene	14	14	100	U
103-65-1	n-Propylbenzene	16	16	100	U
95-47-6	o-Xylene	19	19	100	U
135-98-8	sec-Butylbenzene	17	17	100	U
100-42-5	Styrene	17	17	100	U
75-65-0	tert-Butyl alcohol	380	380	5000	U
98-06-6	tert-Butylbenzene	16	16	100	U
127-18-4	Tetrachloroethene	20	20	100	U
109-99-9	Tetrahydrofuran	200	200	700	U
108-88-3	Toluene	17	17	100	U
156-60-5	trans-1,2-Dichloroethene	15	15	100	U
10061-02-6	trans-1,3-Dichloropropene	19	19	300	U
79-01-6	Trichloroethene	**5200**	16	100	
75-69-4	Trichlorofluoromethane	29	29	200	U
76-13-1	Trichlorotrifluoroethane	79	79	300	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-5A(660-28585-12)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-012
Matrix:	WATER	**Lab WorkOrder:**	K9LLL1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 09:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:20
Sample Aliquot:	0.2 mL	**Instrument ID:**	R1
Dilution Factor:	100		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	94	94	300	U
75-01-4	Vinyl chloride	40	40	100	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	110	80	125	
1868-53-7	Dibromofluoromethane	107	77	119	
460-00-4	4-Bromofluorobenzene	101	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-123A(660-28585-13)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-013
Matrix:	WATER	**Lab WorkOrder:**	K9LLR1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:58
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:39
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**0.16**	0.16	1.0	J
75-35-4	1,1-Dichloroethene	**1.3**	0.14	1.0	
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-123A(660-28585-13)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-013
Matrix:	WATER	**Lab WorkOrder:**	K9LLR1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:58
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:39
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-123A(660-28585-13)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-013
Matrix:	WATER	**Lab WorkOrder:**	K9LLR1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:58
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:39
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	**0.45**	0.32	5.0	J
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	**1.7**	0.16	1.0	
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-123A(660-28585-13)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-013
Matrix:	WATER	**Lab WorkOrder:**	K9LLR1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:58
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:39
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	105	80	125	
1868-53-7	Dibromofluoromethane	117	77	119	
460-00-4	4-Bromofluorobenzene	104	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-6A(660-28585-14)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-014
Matrix:	WATER	**Lab WorkOrder:**	K9LL01AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 15:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:57
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	500		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	85	85	500	U
71-55-6	1,1,1-Trichloroethane	80	80	500	U
79-34-5	1,1,2,2-Tetrachloroethane	100	100	500	U
79-00-5	1,1,2-Trichloroethane	160	160	500	U
75-34-3	1,1-Dichloroethane	80	80	500	U
75-35-4	1,1-Dichloroethene	**180**	70	500	J
563-58-6	1,1-Dichloropropene	75	75	500	U
87-61-6	1,2,3-Trichlorobenzene	90	90	500	U
96-18-4	1,2,3-Trichloropropane	380	380	1200	U
120-82-1	1,2,4-Trichlorobenzene	160	160	500	U
95-63-6	1,2,4-Trimethylbenzene	70	70	500	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	750	750	2500	U
106-93-4	1,2-Dibromoethane (EDB)	90	90	500	U
95-50-1	1,2-Dichlorobenzene	65	65	500	U
107-06-2	1,2-Dichloroethane	65	65	500	U
78-87-5	1,2-Dichloropropane	65	65	500	U
108-67-8	1,3,5-Trimethylbenzene	70	70	500	U
541-73-1	1,3-Dichlorobenzene	80	80	500	U
142-28-9	1,3-Dichloropropane	75	75	500	U
106-46-7	1,4-Dichlorobenzene	80	80	500	U
594-20-7	2,2-Dichloropropane	100	100	2500	U
78-93-3	2-Butanone (MEK)	920	920	3000	U
95-49-8	2-Chlorotoluene	85	85	500	U
591-78-6	2-Hexanone	700	700	2500	U
106-43-4	4-Chlorotoluene	85	85	500	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-6A(660-28585-14)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-014
Matrix:	WATER	**Lab WorkOrder:**	K9LL01AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 15:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:57
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	500		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	85	85	500	U
108-10-1	4-Methyl-2-pentanone	520	520	2500	U
67-64-1	Acetone	950	950	5000	U
75-05-8	Acetonitrile	4800	4800	15000	U
107-02-8	Acrolein	1400	1400	10000	U
107-13-1	Acrylonitrile	700	700	10000	U
107-05-1	Allyl chloride	85	85	1000	U
71-43-2	Benzene	80	80	500	U
108-86-1	Bromobenzene	85	85	500	U
74-97-5	Bromochloromethane	50	50	500	U
75-27-4	Bromodichloromethane	85	85	500	U
75-25-2	Bromoform	95	95	500	U
74-83-9	Bromomethane	100	100	1000	U
75-15-0	Carbon disulfide	220	220	1000	U
56-23-5	Carbon tetrachloride	95	95	500	U
108-90-7	Chlorobenzene	85	85	500	U
124-48-1	Chlorodibromomethane	85	85	500	U
75-00-3	Chloroethane	200	200	1000	U
67-66-3	Chloroform	80	80	500	U
74-87-3	Chloromethane	150	150	1000	U
156-59-2	cis-1,2-Dichloroethene	**490**	75	500	J
10061-01-5	cis-1,3-Dichloropropene	80	80	500	U
74-95-3	Dibromomethane	85	85	500	U
75-71-8	Dichlorodifluoromethane	160	160	1000	U
64-17-5	Ethanol	47000	47000	150000	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-6A(660-28585-14)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-014
Matrix:	WATER	**Lab WorkOrder:**	K9LL01AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 15:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:57
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	500		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	600	600	2500	U
100-41-4	Ethylbenzene	80	80	500	U
87-68-3	Hexachlorobutadiene	60	60	500	U
67-63-0	Isopropanol	6500	6500	20000	U
98-82-8	Isopropylbenzene	95	95	500	U
80-62-6	Methyl methacrylate	560	560	2000	U
1634-04-4	Methyl tert-butyl ether	120	120	2500	U
75-09-2	Methylene chloride	**280**	160	2500	J
136777-61-2	m-Xylene & p-Xylene	170	170	1000	U
91-20-3	Naphthalene	110	110	500	U
104-51-8	n-Butylbenzene	70	70	500	U
103-65-1	n-Propylbenzene	80	80	500	U
95-47-6	o-Xylene	95	95	500	U
135-98-8	sec-Butylbenzene	85	85	500	U
100-42-5	Styrene	85	85	500	U
75-65-0	tert-Butyl alcohol	1900	1900	25000	U
98-06-6	tert-Butylbenzene	80	80	500	U
127-18-4	Tetrachloroethene	100	100	500	U
109-99-9	Tetrahydrofuran	1000	1000	3500	U
108-88-3	Toluene	85	85	500	U
156-60-5	trans-1,2-Dichloroethene	75	75	500	U
10061-02-6	trans-1,3-Dichloropropene	95	95	1500	U
79-01-6	Trichloroethene	**22000**	80	500	
75-69-4	Trichlorofluoromethane	140	140	1000	U
76-13-1	Trichlorotrifluoroethane	400	400	1500	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	PZ-LSAS-6A(660-28585-14)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-014
Matrix:	WATER	**Lab WorkOrder:**	K9LL01AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 15:45
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 17:57
Sample Aliquot:	0.4 mL	**Instrument ID:**	R1
Dilution Factor:	500		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	470	470	1500	U
75-01-4	Vinyl chloride	200	200	500	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	105	70	127	
2037-26-5	Toluene-d8	107	80	125	
1868-53-7	Dibromofluoromethane	116	77	119	
460-00-4	4-Bromofluorobenzene	100	78	118	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-5A(660-28585-15)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-015
Matrix:	WATER	**Lab WorkOrder:**	K9LL31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:46
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:16
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-5A(660-28585-15)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-015
Matrix:	WATER	**Lab WorkOrder:**	K9LL31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:46
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:16
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-5A(660-28585-15)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-015
Matrix:	WATER	**Lab WorkOrder:**	K9LL31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:46
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:16
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	**0.41**	0.32	5.0	J
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-5A(660-28585-15)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-015
Matrix:	WATER	**Lab WorkOrder:**	K9LL31AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 13:46
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:16
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
2037-26-5	Toluene-d8	106	80	125	
1868-53-7	Dibromofluoromethane	110	77	119	
460-00-4	4-Bromofluorobenzene	101	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-6A(660-28585-16)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-016
Matrix:	WATER	**Lab WorkOrder:**	K9LL71AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:54
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:35
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-6A(660-28585-16)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-016
Matrix:	WATER	**Lab WorkOrder:**	K9LL71AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:54
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:35
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-6A(660-28585-16)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-016
Matrix:	WATER	**Lab WorkOrder:**	K9LL71AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:54
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:35
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	**0.45**	0.32	5.0	J
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-6A(660-28585-16)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-016
Matrix:	WATER	**Lab WorkOrder:**	K9LL71AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 14:54
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:35
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	101	70	127	
2037-26-5	Toluene-d8	106	80	125	
1868-53-7	Dibromofluoromethane	100	77	119	
460-00-4	4-Bromofluorobenzene	112	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-84A(660-28585-17)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-017
Matrix:	WATER	**Lab WorkOrder:**	K9LMD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:09
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:53
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
75-34-3	1,1-Dichloroethane	**0.24**	0.16	1.0	J
75-35-4	1,1-Dichloroethene	**0.44**	0.14	1.0	J
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-84A(660-28585-17)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-017
Matrix:	WATER	**Lab WorkOrder:**	K9LMD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:09
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:53
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
67-64-1	Acetone	1.9	1.9	10	U
75-05-8	Acetonitrile	9.6	9.6	30	U
107-02-8	Acrolein	2.8	2.8	20	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
64-17-5	Ethanol	94	94	300	U

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-84A(660-28585-17)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-017
Matrix:	WATER	**Lab WorkOrder:**	K9LMD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:09
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:53
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
75-09-2	Methylene chloride	**0.54**	0.32	5.0	J
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-84A(660-28585-17)
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D040124-017
Matrix:	WATER	**Lab WorkOrder:**	K9LMD1AA
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:09
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 18:53
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	102	70	127	
2037-26-5	Toluene-d8	106	80	125	
1868-53-7	Dibromofluoromethane	114	77	119	
460-00-4	4-Bromofluorobenzene	116	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D070000-245B
Matrix:	WATER	**Lab WorkOrder:**	K9QKL1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 10:22
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
10061-02-6	trans-1,3-Dichloropropene	0.19	0.19	3.0	U
67-64-1	Acetone	1.9	1.9	10	U
64-17-5	Ethanol	94	94	300	U
141-78-6	Ethyl acetate	1.2	1.2	5.0	U
100-41-4	Ethylbenzene	0.16	0.16	1.0	U
75-69-4	Trichlorofluoromethane	0.29	0.29	2.0	U
87-68-3	Hexachlorobutadiene	0.12	0.12	1.0	U
591-78-6	2-Hexanone	1.4	1.4	5.0	U
67-63-0	Isopropanol	13	13	40	U
98-82-8	Isopropylbenzene	0.19	0.19	1.0	U
99-87-6	4-Isopropyltoluene	0.17	0.17	1.0	U
75-65-0	tert-Butyl alcohol	3.8	3.8	50	U
75-09-2	Methylene chloride	0.32	0.32	5.0	U
80-62-6	Methyl methacrylate	1.1	1.1	4.0	U
108-10-1	4-Methyl-2-pentanone	1.0	1.0	5.0	U
91-20-3	Naphthalene	0.22	0.22	1.0	U
71-43-2	Benzene	0.16	0.16	1.0	U
75-05-8	Acetonitrile	9.6	9.6	30	U
103-65-1	n-Propylbenzene	0.16	0.16	1.0	U
100-42-5	Styrene	0.17	0.17	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.17	0.17	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.20	1.0	U
127-18-4	Tetrachloroethene	0.20	0.20	1.0	U
109-99-9	Tetrahydrofuran	2.0	2.0	7.0	U
108-88-3	Toluene	0.17	0.17	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.18	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	0.32	0.32	1.0	U
71-55-6	1,1,1-Trichloroethane	0.16	0.16	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D070000-245B
Matrix:	WATER	**Lab WorkOrder:**	K9QKL1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 10:22
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
79-00-5	1,1,2-Trichloroethane	0.32	0.32	1.0	U
79-01-6	Trichloroethene	0.16	0.16	1.0	U
96-18-4	1,2,3-Trichloropropane	0.77	0.77	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.14	0.14	1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.14	0.14	1.0	U
108-05-4	Vinyl acetate	0.94	0.94	3.0	U
75-01-4	Vinyl chloride	0.40	0.40	1.0	U
95-47-6	o-Xylene	0.19	0.19	1.0	U
76-13-1	Trichlorotrifluoroethane	0.79	0.79	3.0	U
1634-04-4	Methyl tert-butyl ether	0.25	0.25	5.0	U
136777-61-2	m-Xylene & p-Xylene	0.34	0.34	2.0	U
108-86-1	Bromobenzene	0.17	0.17	1.0	U
74-97-5	Bromochloromethane	0.10	0.10	1.0	U
75-27-4	Bromodichloromethane	0.17	0.17	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.5	1.5	5.0	U
106-93-4	1,2-Dibromoethane (EDB)	0.18	0.18	1.0	U
78-93-3	2-Butanone (MEK)	1.8	1.8	6.0	U
75-25-2	Bromoform	0.19	0.19	1.0	U
74-83-9	Bromomethane	0.21	0.21	2.0	U
107-02-8	Acrolein	2.8	2.8	20	U
104-51-8	n-Butylbenzene	0.14	0.14	1.0	U
135-98-8	sec-Butylbenzene	0.17	0.17	1.0	U
98-06-6	tert-Butylbenzene	0.16	0.16	1.0	U
75-15-0	Carbon disulfide	0.45	0.45	2.0	U
107-13-1	Acrylonitrile	1.4	1.4	20	U
56-23-5	Carbon tetrachloride	0.19	0.19	1.0	U
108-90-7	Chlorobenzene	0.17	0.17	1.0	U
124-48-1	Chlorodibromomethane	0.17	0.17	1.0	U

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D070000-245B
Matrix:	WATER	**Lab WorkOrder:**	K9QKL1AA
% Moisture:		**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 10:22
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

CAS No.	Analyte	Conc.	MDL	RL	Q
75-00-3	Chloroethane	0.41	0.41	2.0	U
67-66-3	Chloroform	0.16	0.16	1.0	U
74-87-3	Chloromethane	0.30	0.30	2.0	U
107-05-1	Allyl chloride	0.17	0.17	2.0	U
95-49-8	2-Chlorotoluene	0.17	0.17	1.0	U
106-43-4	4-Chlorotoluene	0.17	0.17	1.0	U
74-95-3	Dibromomethane	0.17	0.17	1.0	U
95-50-1	1,2-Dichlorobenzene	0.13	0.13	1.0	U
541-73-1	1,3-Dichlorobenzene	0.16	0.16	1.0	U
106-46-7	1,4-Dichlorobenzene	0.16	0.16	1.0	U
75-71-8	Dichlorodifluoromethane	0.31	0.31	2.0	U
75-34-3	1,1-Dichloroethane	0.16	0.16	1.0	U
107-06-2	1,2-Dichloroethane	0.13	0.13	1.0	U
75-35-4	1,1-Dichloroethene	0.14	0.14	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.15	0.15	1.0	U
156-60-5	trans-1,2-Dichloroethene	0.15	0.15	1.0	U
78-87-5	1,2-Dichloropropane	0.13	0.13	1.0	U
142-28-9	1,3-Dichloropropane	0.15	0.15	1.0	U
594-20-7	2,2-Dichloropropane	0.20	0.20	5.0	U
563-58-6	1,1-Dichloropropene	0.15	0.15	1.0	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.16	1.0	U

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	70	127	
2037-26-5	Toluene-d8	105	80	125	
1868-53-7	Dibromofluoromethane	91	77	119	
460-00-4	4-Bromofluorobenzene	104	78	118	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER **Extraction** I25RI9H

Lot/SDG Number: D9D040124 **QC Batch ID:** 9097245

Client ID	Work Order	SRG1	SRG2	SRG3	SRG4	SRG5	SRG6	SRG7	SRG8	TOT OUT
RW-1A(660-28585-7)	K9LK31AA	104	103	101	103					0
PZ-LSAS-2A(660-28585-8)	K9LK51AA	100	110	101	107					0
PZ-LSAS-1A(660-28585-9)	K9LK91AA	100	109	119	107					0
MW-4A(660-28585-1)	K9LKJ1AA	100	112	96	105					0
MW-7SA(660-28585-2)	K9LKL1AA	101	104	100	105					0
MW-7SA(660-28585-2) MS	K9LKL1AC	95	105	93	103					0
MW-7SA(660-28585-2) MSD	K9LKL1AD	99	104	113	101					0
MW-7DA(660-28585-3)	K9LKN1AA	100	104	109	106					0
MW-3A(660-28585-4)	K9LKQ1AA	102	103	109	104					0
RW-2A(660-28585-5)	K9LKT1AA	103	114	109	103					0
PZ-LSAS-7A(660-28585-6)	K9LKV1AA	102	114	107	106					0
PZ-LSAS-6A(660-28585-14)	K9LL01AA	105	100	116	107					0
MW-5A(660-28585-15)	K9LL31AA	101	101	110	106					0
MW-6A(660-28585-16)	K9LL71AA	101	112	100	106					0
PZ-LSAS-3A(660-28585-10)	K9LLD1AA	107	100	114	109					0
PZ-LSAS-4A(660-28585-11)	K9LLG1AA	104	107	111	106					0
PZ-LSAS-5A(660-28585-12)	K9LLL1AA	105	101	107	110					0
MW-123A(660-28585-13)	K9LLR1AA	105	104	117	105					0
MW-84A(660-28585-17)	K9LMD1AA	102	116	114	106					0
INTRA-LAB BLANK	K9QKL1AA	100	104	91	105					0
CHECK SAMPLE	K9QKL1AC	100	105	97	103					0

Surrogate Number	Surrogate Name	Lower Control Limit	Upper Control Limit
SRG 1	1,2-Dichloroethane-d4	70	127
SRG 2	4-Bromofluorobenzene	78	118
SRG 3	Dibromofluoromethane	77	119
SRG 4	Toluene-d8	80	125

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D070000-245C
Matrix:	WATER	**Lab WorkOrder:**	K9QKL1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 10:04
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
trans-1,3-Dichloropropene	5.00	4.36	87		72 - 120
Acetone	10.0	8.97	90		48 - 130
Ethylbenzene	5.00	5.36	107		78 - 120
Trichlorofluoromethane	5.00	5.73	115		63 - 135
Hexachlorobutadiene	5.00	5.54	111		73 - 123
2-Hexanone	10.0	9.36	94		57 - 121
Isopropylbenzene	5.00	4.65	93		71 - 120
4-Isopropyltoluene	5.00	4.90	98		76 - 120
Methylene chloride	5.00	4.41	88		71 - 120
4-Methyl-2-pentanone	10.0	9.82	98		65 - 120
Naphthalene	5.00	3.99	80		62 - 121
Benzene	5.00	4.82	96		77 - 120
2-Pentanone	10.0	11.6	116		42 - 120
n-Propylbenzene	5.00	5.31	106		76 - 120
Styrene	5.00	4.82	96		77 - 120
1,1,1,2-Tetrachloroethane	5.00	5.06	101		77 - 120
1,1,2,2-Tetrachloroethane	5.00	4.54	91		73 - 120
Tetrachloroethene	5.00	5.22	104		77 - 120
Toluene	5.00	4.98	100		73 - 120
1,2,3-Trichlorobenzene	5.00	4.74	95		66 - 123
1,2,4-Trichlorobenzene	5.00	4.29	86		73 - 121
1,1,1-Trichloroethane	5.00	5.25	105		78 - 120
1,1,2-Trichloroethane	5.00	4.76	95		76 - 120
Trichloroethene	5.00	5.07	101		78 - 122
1,2,3-Trichloropropane	5.00	4.47	89		72 - 120
1,2,4-Trimethylbenzene	5.00	5.10	102		77 - 120
1,3,5-Trimethylbenzene	5.00	5.25	105		77 - 120
Vinyl acetate	5.00	4.80	96		63 - 124
Vinyl chloride	5.00	6.19	124		49 - 136

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D070000-245C
Matrix:	WATER	**Lab WorkOrder:**	K9QKL1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 10:04
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
o-Xylene	5.00	5.17	103		77 - 120
Xylenes (total)	15.0	16.1	107		77 - 120
Methyl tert-butyl ether	10.0	9.60	96		58 - 120
m-Xylene & p-Xylene	10.0	10.9	109		78 - 120
Bromobenzene	5.00	4.92	98		75 - 120
Bromochloromethane	5.00	4.63	93		78 - 120
Bromodichloromethane	5.00	4.88	98		78 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	4.14	83		65 - 120
1,2-Dibromoethane (EDB)	5.00	4.63	93		77 - 120
2-Butanone (MEK)	10.0	8.23	82		57 - 120
Bromoform	5.00	4.12	82		74 - 121
Bromomethane	5.00	5.54	111		42 - 154
n-Butylbenzene	5.00	4.96	99		76 - 120
sec-Butylbenzene	5.00	5.26	105		80 - 120
tert-Butylbenzene	5.00	5.36	107		76 - 120
Carbon disulfide	5.00	4.20	84		56 - 120
Carbon tetrachloride	5.00	5.23	105		80 - 120
Chlorobenzene	5.00	4.83	97		78 - 120
Chlorodibromomethane	5.00	4.77	95		76 - 120
Chloroethane	5.00	5.36	107		51 - 133
2-Chloroethyl vinyl ether	5.00	4.58	92		17 - 150
Chloroform	5.00	4.93	99		78 - 120
Chloromethane	5.00	5.76	115		46 - 142
2-Chlorotoluene	5.00	5.34	107		76 - 120
4-Chlorotoluene	5.00	5.12	102		78 - 120
Dibromomethane	5.00	4.72	94		77 - 120
1,2-Dichlorobenzene	5.00	4.83	97		76 - 120
1,3-Dichlorobenzene	5.00	4.93	99		75 - 120
1,4-Dichlorobenzene	5.00	4.85	97		77 - 120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D070000-245C
Matrix:	WATER	**Lab WorkOrder:**	K9QKL1AC
% Moisture:	N/A	**Date/Time Collected:**	
Basis:	Wet	**Date/Time Received:**	
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 10:04
Sample Aliquot:	20 mL	**Instrument ID:**	R1
Dilution Factor:	1		

Analyte	True	Found	%Rec	Q	Limits
Dichlorodifluoromethane	5.00	6.16	123		56 - 140
1,1-Dichloroethane	5.00	5.17	103		77 - 120
1,2-Dichloroethane	5.00	4.76	95		74 - 120
1,1-Dichloroethene	5.00	3.87	77		68 - 133
cis-1,2-Dichloroethene	5.00	4.74	95		75 - 120
trans-1,2-Dichloroethene	5.00	5.25	105		80 - 120
1,2-Dichloroethene (total)	10.0	9.99	100		78 - 120
1,2-Dichloropropane	5.00	4.82	96		76 - 120
1,3-Dichloropropane	5.00	4.86	97		75 - 120
2,2-Dichloropropane	5.00	5.08	102		72 - 128
1,1-Dichloropropene	5.00	4.95	99		75 - 120
cis-1,3-Dichloropropene	5.00	4.31	86		76 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	100	70	127	
2037-26-5	Toluene-d8	103	80	125	
1868-53-7	Dibromofluoromethane	97	77	119	
460-00-4	4-Bromofluorobenzene	105	78	118	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**MS Lab Sample ID:**	D9D040124-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K9LKL1AC
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:33
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.95		99		77 - 120
1,1,1-Trichloroethane	5.00	0.16	U	5.21		104		78 - 120
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.36		87		73 - 120
1,1,2-Trichloroethane	5.00	0.32	U	4.43		89		76 - 120
1,1-Dichloroethane	5.00	0.16	U	5.13		103		77 - 120
1,1-Dichloroethene	5.00	0.14	U	5.45		109		68 - 133
1,1-Dichloropropene	5.00	0.15	U	4.73		95		75 - 120
1,2,3-Trichlorobenzene	5.00	0.18	U	4.77		95		66 - 123
1,2,3-Trichloropropane	5.00	0.77	U	4.01		80		72 - 120
1,2,4-Trichlorobenzene	5.00	0.32	U	4.34		87		73 - 121
1,2,4-Trimethylbenzene	5.00	0.14	U	5.13		103		77 - 120
1,2-Dibromo-3-chloropropane (DBCP)	5.00	1.5	U	3.69		74		65 - 120
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.30		86		77 - 120
1,2-Dichlorobenzene	5.00	0.13	U	4.72		94		76 - 120
1,2-Dichloroethane	5.00	0.13	U	4.64		93		74 - 120
1,2-Dichloroethene (total)	10.0	0.15	U	9.76		98		78 - 120
1,2-Dichloropropane	5.00	0.13	U	4.68		94		76 - 120
1,3,5-Trimethylbenzene	5.00	0.14	U	5.21		104		77 - 120
1,3-Dichlorobenzene	5.00	0.16	U	4.85		97		75 - 120
1,3-Dichloropropane	5.00	0.15	U	4.45		89		75 - 120
1,4-Dichlorobenzene	5.00	0.16	U	4.85		97		77 - 120
2,2-Dichloropropane	5.00	0.20	U	5.26		105		72 - 128
2-Butanone (MEK)	10.0	1.8	U	7.81		78		57 - 120
2-Chloroethyl vinyl ether	5.00	0.74	U	3.93		79		17 - 150
2-Chlorotoluene	5.00	0.17	U	5.35		107		76 - 120
2-Hexanone	10.0	1.4	U	7.83		78		57 - 121
2-Pentanone	10.0	0.82	U	10.4		104		42 - 120
4-Chlorotoluene	5.00	0.17	U	5.08		102		78 - 120
4-Isopropyltoluene	5.00	0.17	U	4.87		97		76 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**MS Lab Sample ID:**	D9D040124-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K9LKL1AC
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:33
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
4-Methyl-2-pentanone	10.0	1.0	U	8.51		85		65 - 120
Acetone	10.0	1.9	U	9.97		100		48 - 130
Benzene	5.00	0.16	U	4.76		95		77 - 120
Bromobenzene	5.00	0.17	U	4.81		96		75 - 120
Bromochloromethane	5.00	0.10	U	4.41		88		78 - 120
Bromodichloromethane	5.00	0.17	U	4.73		95		78 - 120
Bromoform	5.00	0.19	U	3.77		75		74 - 121
Bromomethane	5.00	0.21	U	5.26		105		42 - 154
Carbon disulfide	5.00	0.45	U	4.20		84		56 - 120
Carbon tetrachloride	5.00	0.19	U	5.09		102		80 - 120
Chlorobenzene	5.00	0.17	U	4.79		96		78 - 120
Chlorodibromomethane	5.00	0.17	U	4.54		91		76 - 120
Chloroethane	5.00	0.41	U	5.30		106		51 - 133
Chloroform	5.00	0.16	U	4.97		99		78 - 120
Chloromethane	5.00	0.30	U	5.64		113		46 - 142
cis-1,2-Dichloroethene	5.00	0.15	U	4.57		91		75 - 120
cis-1,3-Dichloropropene	5.00	0.16	U	4.19		84		76 - 120
Dibromomethane	5.00	0.17	U	4.42		88		77 - 120
Dichlorodifluoromethane	5.00	0.31	U	5.74		115		56 - 140
Ethylbenzene	5.00	0.16	U	5.20		104		78 - 120
Hexachlorobutadiene	5.00	0.12	U	5.67		113		73 - 123
Isopropylbenzene	5.00	0.19	U	4.56		91		71 - 120
m-Xylene & p-Xylene	10.0	0.34	U	10.8		108		78 - 120
Methyl tert-butyl ether	10.0	0.25	U	8.62		86		58 - 120
Methylene chloride	5.00	0.32	U	4.72		94		71 - 120
n-Butylbenzene	5.00	0.14	U	4.98		100		76 - 120
n-Propylbenzene	5.00	0.16	U	5.17		103		76 - 120
Naphthalene	5.00	0.22	U	3.69		74		62 - 121
o-Xylene	5.00	0.19	U	5.15		103		77 - 120

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**MS Lab Sample ID:**	D9D040124-002S
Matrix:	WATER	**MS Lab WorkOrder:**	K9LKL1AC
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:33
MS Sample Aliquot:	20 mL	**Instrument ID:**	R1
MS Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
sec-Butylbenzene	5.00	0.17	U	5.15		103		80 - 120
Styrene	5.00	0.17	U	4.80		96		77 - 120
tert-Butylbenzene	5.00	0.16	U	5.29		106		76 - 120
Tetrachloroethene	5.00	0.20	U	5.02		100		77 - 120
Toluene	5.00	0.17	U	4.88		98		73 - 120
trans-1,2-Dichloroethene	5.00	0.15	U	5.20		104		80 - 120
trans-1,3-Dichloropropene	5.00	0.19	U	4.11		82		72 - 120
Trichloroethene	5.00	0.16	U	4.80		96		78 - 122
Trichlorofluoromethane	5.00	0.29	U	5.46		109		63 - 135
Vinyl acetate	5.00	0.94	U	5.49		110		63 - 124
Vinyl chloride	5.00	0.40	U	5.97		119		49 - 136
Xylenes (total)	15.0	0.19	U	15.9		106		77 - 120

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	95	70	127	
460-00-4	4-Bromofluorobenzene	105	78	118	
1868-53-7	Dibromofluoromethane	93	77	119	
2037-26-5	Toluene-d8	103	80	125	

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**MSD Lab Sample ID:**	D9D040124-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9LKL1AD
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
1,1,1,2-Tetrachloroethane	5.00	0.17	U	4.86		97		1.8		77 - 120	20
1,1,1-Trichloroethane	5.00	0.16	U	4.86		97		6.8		78 - 120	20
1,1,2,2-Tetrachloroethane	5.00	0.20	U	4.49		90		2.9		73 - 120	20
1,1,2-Trichloroethane	5.00	0.32	U	4.47		89		1.0		76 - 120	21
1,1-Dichloroethane	5.00	0.16	U	5.08		102		1.0		77 - 120	21
1,1-Dichloroethene	5.00	0.14	U	5.32		106		2.5		68 - 133	20
1,1-Dichloropropene	5.00	0.15	U	4.69		94		0.85		75 - 120	21
1,2,3-Trichlorobenzene	5.00	0.18	U	4.71		94		1.2		66 - 123	29
1,2,3-Trichloropropane	5.00	0.77	U	4.18		84		4.2		72 - 120	23
1,2,4-Trichlorobenzene	5.00	0.32	U	4.16		83		4.2		73 - 121	25
1,2,4-Trimethylbenzene	5.00	0.14	U	4.93		99		4.1		77 - 120	20
1,2-Dibromo-3-chloroprop	5.00	1.5	U	3.64		73		1.2		65 - 120	22
1,2-Dibromoethane (EDB)	5.00	0.18	U	4.31		86		0.23		77 - 120	20
1,2-Dichlorobenzene	5.00	0.13	U	4.71		94		0.32		76 - 120	20
1,2-Dichloroethane	5.00	0.13	U	4.71		94		1.4		74 - 120	20
1,2-Dichloroethene (total)	10.0	0.15	U	9.77		98		0.080		78 - 120	20
1,2-Dichloropropane	5.00	0.13	U	4.70		94		0.49		76 - 120	20
1,3,5-Trimethylbenzene	5.00	0.14	U	5.06		101		2.8		77 - 120	20
1,3-Dichlorobenzene	5.00	0.16	U	4.75		95		2.1		75 - 120	20
1,3-Dichloropropane	5.00	0.15	U	4.55		91		2.4		75 - 120	20
1,4-Dichlorobenzene	5.00	0.16	U	4.66		93		4.2		77 - 120	23
2,2-Dichloropropane	5.00	0.20	U	5.29		106		0.51		72 - 128	24
2-Butanone (MEK)	10.0	1.8	U	8.06		81		3.1		57 - 120	32
2-Chloroethyl vinyl ether	5.00	0.74	U	4.21		84		7.0		17 - 150	31
2-Chlorotoluene	5.00	0.17	U	5.21		104		2.6		76 - 120	20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**MSD Lab Sample ID:**	D9D040124-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9LKL1AD
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
2-Hexanone	10.0	1.4	U	8.37		84		6.6		57 - 121	25
2-Pentanone	10.0	0.82	U	11.1		111		7.0		42 - 120	26
4-Chlorotoluene	5.00	0.17	U	4.94		99		2.7		78 - 120	20
4-Isopropyltoluene	5.00	0.17	U	4.59		92		5.8		76 - 120	20
4-Methyl-2-pentanone	10.0	1.0	U	9.11		91		6.8		65 - 120	22
Acetone	10.0	1.9	U	8.86		89		12		48 - 130	41
Benzene	5.00	0.16	U	4.71		94		0.96		77 - 120	20
Bromobenzene	5.00	0.17	U	4.80		96		0.15		75 - 120	20
Bromochloromethane	5.00	0.10	U	4.41		88		0.18		78 - 120	20
Bromodichloromethane	5.00	0.17	U	4.78		96		1.1		78 - 120	20
Bromoform	5.00	0.19	U	3.91		78		3.8		74 - 121	21
Bromomethane	5.00	0.21	U	6.17		123		16		42 - 154	24
Carbon disulfide	5.00	0.45	U	4.50		90		7.0		56 - 120	20
Carbon tetrachloride	5.00	0.19	U	5.02		100		1.5		80 - 120	21
Chlorobenzene	5.00	0.17	U	4.65		93		3.0		78 - 120	20
Chlorodibromomethane	5.00	0.17	U	4.62		92		1.7		76 - 120	20
Chloroethane	5.00	0.41	U	6.74		135	a	24		51 - 133	25
Chloroform	5.00	0.16	U	4.93		99		0.90		78 - 120	20
Chloromethane	5.00	0.30	U	6.13		123		8.3		46 - 142	24
cis-1,2-Dichloroethene	5.00	0.15	U	4.55		91		0.44		75 - 120	20
cis-1,3-Dichloropropene	5.00	0.16	U	4.17		83		0.56		76 - 120	20
Dibromomethane	5.00	0.17	U	4.58		92		3.6		77 - 120	20
Dichlorodifluoromethane	5.00	0.31	U	7.17		143	a	22		56 - 140	24
Ethylbenzene	5.00	0.16	U	4.99		100		4.2		78 - 120	26
Hexachlorobutadiene	5.00	0.12	U	5.31		106		6.5		73 - 123	25

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Analysis Data Sheet

Lab Name:	TESTAMERICA DENVER	**Client Sample ID:**	MW-7SA(660-28585-2)
Lot/SDG Number:	D9D040124	**MSD Lab Sample ID:**	D9D040124-002D
Matrix:	WATER	**MSD Lab WorkOrder:**	K9LKL1AD
% Moisture:	N/A	**Date/Time Collected:**	04/02/09 16:55
Basis:	Wet	**Date/Time Received:**	04/04/09 08:15
Analysis Method:	8260B	**Date Leached:**	
Unit:	ug/L	**Date/Time Extracted:**	04/07/09 08:26
QC Batch ID:	9097245	**Date/Time Analyzed:**	04/07/09 14:51
MSD Sample Aliquot:	20 mL	**Instrument ID:**	R1
MSD Dilution Factor:	1		

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Isopropylbenzene	5.00	0.19	U	4.32		86		5.3		71 - 120	20
m-Xylene & p-Xylene	10.0	0.34	U	10.3		103		4.9		78 - 120	20
Methyl tert-butyl ether	10.0	0.25	U	9.08		91		5.2		58 - 120	21
Methylene chloride	5.00	0.32	U	4.64		93		1.7		71 - 120	20
n-Butylbenzene	5.00	0.14	U	4.65		93		6.9		76 - 120	21
n-Propylbenzene	5.00	0.16	U	4.92		98		4.9		76 - 120	20
Naphthalene	5.00	0.22	U	3.76		75		1.9		62 - 121	32
o-Xylene	5.00	0.19	U	4.93		99		4.5		77 - 120	20
sec-Butylbenzene	5.00	0.17	U	4.90		98		4.9		80 - 120	21
Styrene	5.00	0.17	U	4.60		92		4.3		77 - 120	20
tert-Butylbenzene	5.00	0.16	U	4.70		94		12		76 - 120	21
Tetrachloroethene	5.00	0.20	U	4.73		95		5.9		77 - 120	20
Toluene	5.00	0.17	U	4.68		94		4.1		73 - 120	20
trans-1,2-Dichloroethene	5.00	0.15	U	5.22		104		0.54		80 - 120	24
trans-1,3-Dichloropropene	5.00	0.19	U	4.22		84		2.6		72 - 120	20
Trichloroethene	5.00	0.16	U	4.70		94		2.2		78 - 122	20
Trichlorofluoromethane	5.00	0.29	U	6.33		127		15		63 - 135	20
Vinyl acetate	5.00	0.94	U	6.07		121		10		63 - 124	24
Vinyl chloride	5.00	0.40	U	7.14		143	a	18		49 - 136	24
Xylenes (total)	15.0	0.19	U	15.2		101		4.8		77 - 120	20

CAS No.	Surrogate	% Rec	Lower Limit	Upper Limit	Q
17060-07-0	1,2-Dichloroethane-d4	99	70	127	
460-00-4	4-Bromofluorobenzene	104	78	118	
1868-53-7	Dibromofluoromethane	113	77	119	
2037-26-5	Toluene-d8	101	80	125	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa

Method Blank Summary

Lab Name:	TESTAMERICA DENVER	**Lab File ID:**	R0398.D
Lot/SDG Number:	D9D040124	**Lab Sample ID:**	D9D070000-245B
Matrix:	WATER	**Lab Work Order:**	K9QKL1AA
Analysis Method:	8260B	**Date/Time Extracted:**	04/07/09 08:26
Extraction Method:	I25RI9H	**Date/Time Analyzed:**	04/07/09 10:22
QC Batch ID:	9097245	**Instrument ID:**	R1

Client ID	Sample Work Order #	Lab File ID	Date Analyzed	Time Analyzed
RW-1A(660-28585-7)	K9LK31AA	R0398.D	04/07/09	15:47
PZ-LSAS-2A(660-28585-8)	K9LK51AA	R0399.D	04/07/09	16:06
PZ-LSAS-1A(660-28585-9)	K9LK91AA	R0400.D	04/07/09	16:24
MW-4A(660-28585-1)	K9LKJ1AA	R0396.D	04/07/09	15:10
MW-7SA(660-28585-2)	K9LKL1AA	R0390.D	04/07/09	13:18
MW-7SA(660-28585-2) MS	K9LKL1AC S	R0394.D	04/07/09	14:33
MW-7SA(660-28585-2) MSD	K9LKL1AD D	R0395.D	04/07/09	14:51
MW-7DA(660-28585-3)	K9LKN1AA	R0391.D	04/07/09	13:37
MW-3A(660-28585-4)	K9LKQ1AA	R0392.D	04/07/09	13:56
RW-2A(660-28585-5)	K9LKT1AA	R0393.D	04/07/09	14:14
PZ-LSAS-7A(660-28585-6)	K9LKV1AA	R0397.D	04/07/09	15:29
PZ-LSAS-6A(660-28585-14)	K9LL01AA	R0405.D	04/07/09	17:57
MW-5A(660-28585-15)	K9LL31AA	R0406.D	04/07/09	18:16
MW-6A(660-28585-16)	K9LL71AA	R0407.D	04/07/09	18:35
PZ-LSAS-3A(660-28585-10)	K9LLD1AA	R0401.D	04/07/09	16:43
PZ-LSAS-4A(660-28585-11)	K9LLG1AA	R0402.D	04/07/09	17:01
PZ-LSAS-5A(660-28585-12)	K9LLL1AA	R0403.D	04/07/09	17:20
MW-123A(660-28585-13)	K9LLR1AA	R0404.D	04/07/09	17:39
MW-84A(660-28585-17)	K9LMD1AA	R0408.D	04/07/09	18:53
CHECK SAMPLE	K9QKL1AC C	R0381.D	04/07/09	10:04

Serial Number 12259

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil GAS

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil GAS	B003855.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ⊘
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B (SAVANNAH)	REQUIRED ANALYSIS: none unless (Denver)	PRESERVATIVE: HCL	PRESERVATIVE: none	REMARKS
			NUMBER OF CONTAINERS SUBMITTED									
4/2/09	1020	MW-4A	G	X				3	3			
4/1/09	1655	MW-7S A						3	3			
4/1/09	1640	MW-7D A						3	3			
4/2/09	1215	MW-3A						3	3			
	1325	RW-2A						3	3			
	~~1400~~	~~DUP-1A~~						3	3			MD
	1444	PZ-LSAS-7A						3	3			
	1203	RW-1A						3	3			
	HHO	~~DUP-3MD~~ PZ-LSAS-2A						3	3			
	HH5	PZ-LSAS-1A						3	3			
	0835	PZ-LSAS-3A						3	3			
	0956	PZ-LSAS-4A						3	3			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845	YES ○ NO ○		660-28585	1.9°C, 2.1°C	cw-07

TAL8240-660 (1207)

Page 124 of 127

R625-EDC-001214-0

Serial Number 12258

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Soil GAS

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Soil Gas	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ✓

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B (SAVANNAH)	REQUIRED ANALYSIS: VOLATILES (DENVER)	PRESERVATIVE: HCL	PRESERVATIVE: NONE	REMARKS
4/2/09	0945	P2-LSAS-5A	G	A				3	3			
	1458	MW-123A						3	3			
	1545	P2-LSAS-6A						3	3			
	1346	MW-5A						3	3			
	1454	MW-6A						3	3			
	~~0835~~	~~P2-LSAS-3A~~ MD						3	3			
	~~0956~~	~~P2-LSAS-4A~~ MD						3	3			
↓	1609	MW-84A	↓	↓				3	3			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS			Carol McNulty	4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
[signature]	4-2-09	1845	YES ○ NO ○		660-	1.9 & 2.1°C	CW-07

TAL8240-660 (1207)

R625-EDC-001214-0

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28585-1
SDG Number: 660-28585

Login Number: 28585
List Source: TestAmerica Tampa
Creator: McNulty, Carol
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	1.9, 2.1 degrees CU-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Login Sample Receipt Check List

Client: ARCADIS

Job Number: 660-28585-1
SDG Number: 660-28585

Login Number: 28585
Creator: Conner, Keaton
List Number: 1

List Source: TestAmerica Savannah
List Creation: 04/04/09 08:55 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

ARCADIS

Attachment B

Water Level and Groundwater Sampling Logs

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC facility		SITE LOCATION: Tallahassee, FL	
WELL NO: MW-3	SAMPLE ID: MW-3		DATE: 4.2.09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): .187	WELL SCREEN INTERVAL DEPTH: 5 feet to 20 feet	STATIC DEPTH TO WATER (feet): 6.79	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20 feet – 6.79 feet) X 0.16 gallons/foot = 2.1 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	PURGING INITIATED AT: 1048	PURGING ENDED AT: 1127	TOTAL VOLUME PURGED (gallons): 3.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1118	2.3	2.3	0.1	6.89	6.67	25.07	232	0.45	1.04	clear	none	93.3
1121	0.3	2.6	↓	6.89	6.68	25.07	237	0.43	1.25	colorless	noted	92.9
1124	0.3	2.9	↓	6.89	6.58	25.08	238	0.44	1.38	↓	↓	94.0

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats / Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1130	SAMPLING ENDED AT: 1215
PUMP OR TUBING DEPTH IN WELL (feet): 12'	TUBING MATERIAL CODE:	FIELD-FILTERED: (Y) N	FILTER SIZE: .45 µm
		Filtration Equipment Type: FOR DISSOLVED Metals	
FIELD DECONTAMINATION: PUMP Y N NA	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SVS MW-3A	3	CG	40 mL	none	—	—		APP	100
↓	3	↓	↓	HCl	—	—		↓	
↓	2	↓	↓	↓	—	—			
MW-3 ~~MW-4~~	4	CG	40mL	↓	—	—	8260 B+SM	RFPP	
	1	PE	250mL	HCl			Total Fe, Mn	APP	
	1	PE	250mL	None			Bromide/Sulfate	APP	

REMARKS: Filter Size = 0.45µm. Field Blank 11 collected. FB-11

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

MW-3 → 1 PE 500 mL None TDS APP

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 4.2.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 4 feet to 19 feet	STATIC DEPTH TO WATER (feet): 7.78	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (18.87 feet - 7.78 feet) X 0.16 gallons/foot = 1.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0946	TOTAL VOLUME PURGED (gallons): 3.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0940	2.5	2.5	0.1	7.83	5.58	24.62	573	0.23	2.00	clear	none	122.3
0943	0.3	2.8	↓	7.85	6.67	24.64	578	0.26	1.65	colorless	none	125.0
0946	0.3	3.1		7.86	5.54	24.70	578	0.21	1.82	↓	↓	124.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: AMY Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 1020
PUMP OR TUBING DEPTH IN WELL (feet): 11	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-4	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-4 A	3	CG	40 mL	HCL	–	–	1666	~~APP~~ RFPP	100
MW-4 A	3	CG	40 mL	HCL	–	–	8260B	~~APP~~ RFPP	100
MW-4 A	3	CG	40 mL	None	–	–	8260B	~~APP~~ RFPP	100
MW-4	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
	1	PE	250 mL	HNO_3			Dissolved Fe Ma	APP	
	2	PE	250 mL	HNO_3			Total Fe Ma	APP	
	1	PE	500 mL	None			TDS	APP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-5	SAMPLE ID: MW-5	DATE: 4/2/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 4 feet to 10 feet	STATIC DEPTH TO WATER (feet): 8.09	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (10 feet – 8.09 feet) X 0.16 gallons/foot = 0.31 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.75	PURGING INITIATED AT: 13:14	PURGING ENDED AT: 13:34	TOTAL VOLUME PURGED (gallons): 0.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
13:22	0.32	0.32	0.04	8.12	6.36	27.69	1158	0.77	0.85	Clear	No	-21.9
13:25	0.12	0.44	0.04	8.12	6.37	27.70	1092	0.48	0.76	Clear	No	-14.7
13:28	0.12	0.56	0.04	8.12	6.36	27.72	1051	0.38	0.63	Clear	No	-7.7
13:31	0.12	0.68	0.04	8.12	6.36	27.71	1036	0.35	0.71	Clear	No	0.7
13:34	0.12	RT ~~0.80~~ 0.80	0.04	8.12	6.36	27.77	1038	0.38	0.60	Clear	No	4.0

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle / Arcadis	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 13:35	SAMPLING ENDED AT: 13:46

PUMP OR TUBING DEPTH IN WELL (feet): 9.75	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-5	4	CG	40mL	HCl	-	-	8260B/CSIM	RFPP	<100
	3	CG	40mL	HCl	-	-	8260B	RFPP	<100
	3	CG	40mL	N/A	-	-	8260B	RFPP	<100
	2	CG	40mL	HCl	-	-	1666	RFPP	<100
	1	PE	125mL	HNO_3	-	-	6010B Diss Fe,Mn	APP	<100
	1	PE	250mL	HNO_3	-	-	6010B Total Fe,Mn	APP	<100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
WELL NO: MW-6	SAMPLE ID: MW-6	DATE: 4/2/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 4 feet to 10 feet	STATIC DEPTH TO WATER (feet): 8.10	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (10 feet – 8.10 feet) X 0.16 gallons/foot = 0.31 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.75	PURGING INITIATED AT: 14:06	PURGING ENDED AT: 14:25	TOTAL VOLUME PURGED (gallons): 0.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
14:16	0.5	0.5	0.05	8.10	6.52	28.00	226	1.00	2.01	Clear	No	146.3
14:19	0.15	0.65	0.05	8.10	6.57	28.07	227	0.74	1.91	Clear	No	123.7
14:22	0.15	0.8	0.05	8.10	6.58	28.25	229	0.68	1.27	Clear	No	107.7
14:25	0.15	0.95	0.05	8.10	6.59	28.05	228	0.61	1.26	Clear	No	97.4

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle / Arcadis	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 14:26	SAMPLING ENDED AT: 14:54
PUMP OR TUBING DEPTH IN WELL (feet): 9.75	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-6	4	CG	40mL	HCl	–	–	8260B/CSIM	RFPP	<100
	3	CG	40mL	HCl	–	–	8260B	RFPP	<100
	3	CG	40mL	N/A	–	–	8260B	RFPP	<100
	2	CG	40mL	HCl	–	–	1666	RFPP	<100
	1	PE	125mL	HNO_3	–	–	6010B Total Fe, Mn	APP	<100
	1	PE	250mL	HNO_3	–	–	6010B Diss Fe, Mn	APP	<100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Tallcast	SITE LOCATION:	Sarasota FL
WELL NO:	MW-7D	SAMPLE ID:	MW-7D
		DATE:	4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/16	15 feet to 20 feet	6.73	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0004 gallons/foot X 35 feet) + .25 gallons = .30 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
17.5	17.5	1610	1625	1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) ORP
16:17	.49	.49	.07	6.85	4.78	24.66	1403	1.02	5.32	clear	none 175.2
16:19	.14	.63	.07	6.84	4.70	24.49	1397	.99	2.90		182.9
16:21	.14	.77	.07	6.85	4.66	24.54	1397	.76	2.20		187.5
16:23	.14	.91	.07	6.85	4.65	24.58	1397	.58	2.51		189.8
1625	.14	1.05	.07	6.85	4.65	24.55	1397	.60	1.81	↓	↓ 190.3

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW / Arcadis		1626	1640

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: 45 µm
17.5	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-7D	4	CG	40	HCl			8260		100
	3	CG		HCl			↓		
	3	CG							
	2	CG	↓	HCl					
↓	2	PE	125	nitric			metal		↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Tallevast	SITE LOCATION:	Sarasota FL
WELL NO:	MW-7S	SAMPLE ID:	MW-7S
		DATE:	4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/16	4 feet to 10 feet	6.92	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (10 feet – 6.92 feet) X .16 gallons/foot = .49 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7	7	1400	1639	1.92

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1633	1.62	1.62	.06	6.98	6.37	24.93	.48	435	15.9	clear	none	68.2
1635	.1	1.72	.05	6.98	6.36	25.19	.45	459	10.56	"	"	64.2
1637	.1	1.82	.05	6.98	6.35	25.28	.46	465	9.65	"	"	64.9
1639	.1	1.92	.05	6.98	6.34	25.18	.44	468	8.95	"	"	73.7

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW/Arcadis		1640	1655

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N	FILTER SIZE: 45 µm
7	PE	Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-7S	4	CG	40	HCl			8260		100
	3		40	HCl					
	3		40						
	2		40	HCl					
	2	PE	250	nitric			metals		

REMARKS: initial purge – dark brown

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Tallevast	SITE LOCATION:	Sarasota FL
WELL NO:	MW-8D	SAMPLE ID:	MW-8D
DATE:	3-25-09		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/16	WELL SCREEN INTERVAL DEPTH:	15 feet to 20 feet	STATIC DEPTH TO WATER (feet):	7.85	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 25 feet) + .25 gallons = .28 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	17.5	PURGING INITIATED AT:	1357	PURGING ENDED AT:	1416	TOTAL VOLUME PURGED (gallons):	1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) ORP
1400	.3	.3	.1	8.05	4.56	25.34	1388	1.85		clear	none
1403	.3	.6	.1	7.85	4.44	2575	1408	.84	1.12		
1406	.3	.9	.1	7.85	4.36	26.00	1418	.69	2.23		276.1
1408	.2	1.1	.1	7.85	4.34	26.38	1432	.59	1.77		263.6
1410	.2	1.3	.1	7.85	4.34	26.83	1445	.48	1.15		239.4
1412	.2	1.5	.1	7.85	4.34	26.94	1453	.39	1.39		239.0
1414	.2	1.7	.1	7.85	4.34	2700	1458	.38	1.52		242.6
1416	.2	1.9	.1	7.85	4.35	26.98	1460	.38	1.14		240.3

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SEK / Arcadis	SAMPLER(S) SIGNATURE(S):	Sara Kimel	SAMPLING INITIATED AT:	1420	SAMPLING ENDED AT:	1440
PUMP OR TUBING DEPTH IN WELL (feet):	17.5	TUBING MATERIAL CODE:	PE	FIELD-FILTERED: (Y) N Filtration Equipment Type:		FILTER SIZE:	45 µm
FIELD DECONTAMINATION:	PUMP (Y) N	TUBING	Y (N) (replaced)	DUPLICATE:	(Y) N		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-8D	4	CG	40 ml	HCl			8260		100
	3	CG	40 mL	HCl			Savannah		
	3	CG	40mL	none			Denver		
	2	CG	40mL	HCl			Flowers		
	2	PE	125mL	nitric acid			metals Dissolved/total		

REMARKS: Dup 32509, MS/MSD collected here for 8260B * SM Windy

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Tallevast	SITE LOCATION: Sarasota Fl		
WELL NO: MW-8S	SAMPLE ID: MW-8S	DATE: 3.25.09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 4 feet to 10 feet	STATIC DEPTH TO WATER (feet): 6.89	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (10 feet – 6.89 feet) X .06 gallons/foot = .18 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.5	PURGING INITIATED AT: 1451	PURGING ENDED AT: 1521	TOTAL VOLUME PURGED (gallons): 1.86

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1515	1.5	1.5	0.06	7.00	5.77	25.06	1510	.29	1.01	clear	none	166.9
1517	.12	1.62	.06	6.95	5.77	25.13	1513	.30	0.98			166.1
1519	.12	1.74	.06	6.95	5.79	25.08	1515	.26	0.99			166.0
1521	.12	1.86	.06	6.95	5.79	25.08	1518	.28	0.99			160.9

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEY / Accadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1525	SAMPLING ENDED AT: 1545
PUMP OR TUBING DEPTH IN WELL (feet): 7.8	TUBING MATERIAL CODE: PE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 45 µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-8S	4	CG	40mL	HCl			8260B SIM		100
	3	CG		HCl			Suwannee		
	3	CG					Denver		
	2	CG		HCl			Flowes		
	2	PE	125mL	nitric			Iron & Manganese		

REMARKS: lawn mower down wind FB-01 collected @ 1515

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-9D	SAMPLE ID: MW-9D	DATE: 4/2/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.10	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 0824	PURGING ENDED AT: 0844	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0829	0.3	0.3	0.06	7.51	5.06	24.6	210	0.92	25.6	Clear	Slight	-241
0834	0.3	0.6	↓	7.51	5.03	24.6	212	0.76	19.4	↓	↓	-248
0839	0.3	0.9		7.51	4.95	24.6	211	0.72	17.4			-249
0844	0.3	1.2		7.51	4.86	24.6	212	0.59	15.1			-246

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Leverett /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0845	SAMPLING ENDED AT: 0857
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL *ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9D	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-9D	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-9D	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-9S	SAMPLE ID: MW-9S	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 4 feet to 10 feet	STATIC DEPTH TO WATER (feet): 7.12	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (10.0 feet - 7.12 feet) X 0.16 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 0905	PURGING ENDED AT: 0926	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0912	0.5	0.5	0.07	7.15	6.46	24.5	322	0.70	3.91	clear	NONE	-298
0919	0.5	1.0	↓	7.15	6.43	24.6	314	0.65	3.00	↓	↓	-290
0926	0.5	1.5	↓	7.15	6.41	24.6	310	0.60	3.82	↓	↓	-289

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos, S.Lemuel /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0927	SAMPLING ENDED AT: 0938
PUMP OR TUBING DEPTH IN WELL (feet): 8.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9S	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-9S	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-9S	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.97	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1350	PURGING ENDED AT: 1406	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1354	0.3	0.3	0.075	8.13	5.35	29.8	859	0.87	27.0	Cloudy	NONE	-285
1358	0.3	0.6	↓	8.13	5.36	29.9	869	0.60	24.1	↓	↓	-292
1402	0.3	0.9		8.13	5.37	30.0	883	0.43	23.9			-308
1406	0.3	1.2		8.13	5.38	30.1	901	0.45	22.5			-295

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Lemmette / ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1407	SAMPLING ENDED AT: 1422
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-10	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-10	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-10	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-10	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-10	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
NO: MW-11	SAMPLE ID: MW-11	DATE: 4-2-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.85	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1425	PURGING ENDED AT: 1437	TOTAL VOLUME PURGED (gallons): .96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1433	.64	.64	.08	7.95	4.46	26.07	1390	.75	9.80	clear	none 201.4
1435	.16 (.08)	.80	.08	7.95	4.44	26.04	1389	.68	2.35	↓	↓ 201.0
1437	.16	.96	.08	7.95	4.45	26.01	1389	.55	1.75	↓	↓ 201.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEW/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1437	SAMPLING ENDED AT: 1445
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-11	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-11	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-11	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-11	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-11	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-11	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-12	SAMPLE ID: MW-12	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1308	PURGING ENDED AT: 1324	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1312	0.3	0.3	0.075	7.70	5.12	30.1	509	1.05	5.69	Clear	Slight	-302
1316	0.3	0.6	↓	7.70	5.04	30.2	510	0.80	9.65	↓	↓	-316
1320	0.3	0.9		7.70	4.95	30.2	512	0.63	4.59			-325
1324	0.3	1.2		7.70	4.97	30.3	515	0.56	3.90			-320

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
S INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos, S. Lenerette ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1325	SAMPLING ENDED AT: 1340
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-12	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-12	3	CG	40 mL	HCL	--	--	1666	RFPP	100
MW-12	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
MW-12	3	CG	40 mL	None	--	--	8260B	RFPP	100
MW-12	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-13D	SAMPLE ID: MW-13D	DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 30 feet) + 0.25 gallons = 0.29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1047	PURGING ENDED AT: 1108	TOTAL VOLUME PURGED (gallons): 0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1054	0.3	0.3	0.042	7.81	4.61	24.5	42	0.78	1.69	Clear	Clear	-272
1101	0.3	0.6	↓	7.81	4.64	24.5	41	0.72	1.36	↓	↓	-284
1108	0.3	0.9	↓	7.81	4.61	24.5	42	0.71	1.29	↓	↓	-287

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, J. Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1109	SAMPLING ENDED AT: 1121
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-13D	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-13D	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-13D	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
W NO: MW-13S	SAMPLE ID: MW-13S	DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 4 feet to 10 feet	STATIC DEPTH TO WATER (feet): 7.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (10.0 feet - 7.45 feet) X 0.16 gallons/foot = 0.4 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 1131	PURGING ENDED AT: 1151	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1136	0.4	0.4	0.08	7.48	6.18	24.8	236	1.21	17.6	Clear	NONE	-201
1141	0.4	0.8	↓	7.48	6.41	25.1	253	0.55	11.8	↓	↓	-239
1146	0.4	1.2		7.48	6.49	25.2	257	0.45	6.09			-253
1151	0.4	1.6		7.48	6.54	25.3	263	0.35	4.09			-256

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, J. Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1152	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet): 8.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-13S	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-13S	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-13S	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-14D	SAMPLE ID: MW-14D	DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 6.80	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 30 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1447	PURGING ENDED AT: 1503	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1451	0.3	0.3	0.75	7.03	5.58	26.8	100	0.70	7.76	Clear	NONE	-200
1455	0.3	0.6	↓	7.03	5.20	26.3	89	0.36	7.74	↓	↓	-288
1459	0.3	0.9		7.03	5.09	26.4	82	0.30	10.22			-298
1503	0.3	1.2	↓	7.03	5.02	26.3	81	0.27	9.66	↓	↓	-308

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, J. Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1504	SAMPLING ENDED AT: 1514
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-14D	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-14D	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-14D	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-14S	SAMPLE ID:	MW-14S	DATE: 3.24.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	4 feet to 10 feet	6.80	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (10.0 feet - 6.80 feet) X 0.16 gallons/foot = 0.5 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
8.0	8.0	1407	1421	1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1412	0.5	0.5	0.10	6.90	6.16	25.4	3.67	0.86	19.6	Clear	None	187
1415	0.3	0.8	↓	6.90	6.11	25.3	370	0.54	11.4	↓	↓	-216
1418	0.3	1.1		6.90	6.07	25.4	374	0.43	5.06			-213
1421	0.3	1.4		6.90	6.06	25.4	376	0.41	4.08			-163

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kamios, J. Kerstetter/ARCADIS		1422	1432

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
8.0	PE	Y	0.45 um

Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-14S	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-14S	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-14S	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-15D	SAMPLE ID: MW-15D	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): ~~8~~ 7.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18'	PURGING INITIATED AT: 0958	PURGING ENDED AT: 1019	TOTAL VOLUME PURGED (gallons): 1.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1013	1.20	1.20	0.08	7.75	4.85	24.05	248	0.58	0.59	Clear	None	152
1016	0.24	1.44	0.08	7.75	4.85	23.98	247	0.43	0.89	↓	↓	151
1019	0.24	1.68	0.08	7.75	4.82	24.00	246	0.39	1.86	↓	↓	150

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jon Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1035
PUMP OR TUBING DEPTH IN WELL (feet): 18'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45 um Filtration Equipment Type: Disposable Filter dissolved metals	

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N) (replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-15D	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-15D	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-15D	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
MW-15D	1	PE	125mL	none	–	–	Bromide	APP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-15S	SAMPLE ID:	MW-15S	DATE: 3.31.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	4 feet to 10 feet	7.00	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (10 feet - 7 feet) X 0.16 gallons/foot = 0.48 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
8.5'	8.5'	1002	1050	1.45

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1031	0.5	0.5	0.05	7.05	6.71	24.61	389	0.89	0.79	clear	none	-47.1
1034	0.15	0.65	↓	7.05	6.75	24.91	392	0.50	1.07	colorless	noted	-50.7
1037	0.15	0.80		7.05	6.75	24.93	390	0.56	0.84	↓	↓	-48.4
1040	0.15	0.95		7.05	6.77	24.93	384	0.45	0.93			-48.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Amy Coats /ARCADIS		1055	1110

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
8.5'	PE	Filtration Equipment Type: Disposable Filter	for dissolved metals only

FIELD DECONTAMINATION: PUMP(Y/N) NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-15S	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-15S	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-15S	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-16D	SAMPLE ID:	MW-16D	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	15 feet to 20 feet	6.0	PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 30 feet) + 0.25 gallons = 1.30 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
17.5	17.5	1417	1431	1.12

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1427	.8	.8	.08	6.52	5.82	23.69	351	.68	3.13	clear	none	-93.8
1429	.16	.96	.08	6.54	5.83	23.60	349	.70	2.03	↓	↓	-97.1
1431	.16	1.12	.08	6.54	582	23.62	349	.72	3.18	↓	↓	-985

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T... INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1432	1445

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
17.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): YES

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-16D	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-16D	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-16D	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

Dup 10

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-16S	SAMPLE ID: MW-16S	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 4 feet to 10 feet	STATIC DEPTH TO WATER (feet): 6.1	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (10 feet - 6.1 feet) X .16 gallons/foot = .62 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) =
0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1416	PURGING ENDED AT: 1434	TOTAL VOLUME PURGED (gallons): 1.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1426	.8	.8	.08	6.25	5.21	23.14	109	.79	2.65	Clear	none	95.2
1428	.16	.96	.08	6.26	5.16	23.10	107	.80	3.53			101.1
1430	.16	1.12	.08	6.26	5.10	23.13	108	.35	2.83			104.0
1432	.16	1.28	.08	6.26	5.07	23.15	108	.32	5.79			105.9
1434	.16	1.44	.08	6.26	5.06	23.17	109	.29	5.96			106.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEF/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1445

PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45 um Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-16S	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-16S	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-16S	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-17D	SAMPLE ID: MW-17D	DATE: 9-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 7.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.30 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1045	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1030	0.3	0.3	0.06	7.49	5.37	25.0	179	0.84	26.0	clear	slight	-101
1035	0.3	0.6	↓	7.49	5.00	25.1	171	0.65	19.3	↓	↓	-108
1040	0.3	0.9		7.49	4.90	25.0	169	0.50	14.3			
1045	0.3	1.2		7.49	4.89	25.1	165	0.47	13.3			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Lenerette/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1046	SAMPLING ENDED AT: 1055
PUMP OR TUBING DEPTH IN WELL (feet): 17.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-17D	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-17D	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-17D	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-17S	SAMPLE ID:	MW-17S	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	4 feet to 10 feet	7.12	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (10 feet - 7.12 feet) X 0.16 gallons/foot = 0.46 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
8.5	8.5	0946	1004	1.38

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0952	0.46	0.46	0.07	7.20	6.87 24.6RK	24.6	218	0.61	18.4	clear	slight	-129
0958	0.46	0.92	↓	7.20	6.67	24.7	215	0.62	12.9	↓	↓	-129
1004	0.46	1.38	↓	7.20	6.70	24.7	213	0.57	9.69	↓	↓	-135

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Lewnette /ARCADIS		1005	1015

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
8.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-17S	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-17S	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-17S	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-18D	SAMPLE ID: MW-18D	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 6.15	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18'	PURGING INITIATED AT: 10:37	PURGING ENDED AT: 10:55	TOTAL VOLUME PURGED (gallons): ~~3.5~~ 2.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:44	1.5	1.5	0.1	6.40	4.92	24.10	160	0.40	1.66	Clear	None	108
10:47	0.3	1.8	0.1	6.40	4.93	24.11	162	0.41	1.99	↓	↓	105
10:50	0.3	2.1	0.1	6.40	4.95	24.11	163	0.37	2.34	↓	↓	103

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jon Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:09	SAMPLING ENDED AT: 11:15
PUMP OR TUBING DEPTH IN WELL (feet): 18'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-18D	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-18D	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-18D	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-18S	SAMPLE ID:	MW-18S	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 4 feet to 10 feet	STATIC DEPTH TO WATER (feet): 6.10	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7'	PURGING INITIATED AT: 1043	PURGING ENDED AT: 1115	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1102	1.8	1.8	0.1	6.16	5.59	23.50	124	2.19	7.30	Clear	none	-237.8
1105	0.3	2.1	↓	6.15	5.57	23.49	125	2.31	5.13	colorless	noted	-227.7
1108	0.3	2.4		6.16	5.57	23.50	122	2.12	5.48	w/sm.	↓	-230.2
1111	0.3	2.7		6.16	5.56	23.50	123	2.06	5.09	black		-239.2
1114	0.3	3.0		6.16	5.56	23.58	124	2.02	4.33	flecks		-221.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1117	SAMPLING ENDED AT: 1125
PUMP OR TUBING DEPTH IN WELL (feet): 7'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	Dissolved metals only
FIELD DECONTAMINATION: PUMP(Y/N) Y NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-18S	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-18S	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-18S	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

SVS
8260 B /SIM

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-19	SAMPLE ID: MW-19	DATE: 3.24.07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 277.5 feet to 297.5 feet	STATIC DEPTH TO WATER (feet): 20.36	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (298 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 290 feet) + 0.25 gallons = 0.66 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 287'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 287'	PURGING INITIATED AT: 1230	PURGING ENDED AT: 1320	TOTAL VOLUME PURGED (gallons): 2.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1302	1.1	1.1	0.06	22.53	8.47	25.51	687	1.57	1.15	clear	none	-270.8
1305	0.18	1.28	↓	22.71	8.43	25.62	689	0.50	1.04	colorless	none	-250.0
1308	0.18	1.56		22.75	8.33	25.72	690	0.43	1.94	↓	↓	-276.5
1311	0.18	1.74		22.83	8.40	25.75	692	0.40	2.00			-237.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1321	SAMPLING ENDED AT: 1400
PUMP OR TUBING DEPTH IN WELL (feet): 287'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-19	~~1~~	~~PE~~	~~1 L~~	None	–	–	SM 2540C	APP	100
MW-19	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-19	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-19 A	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-19 A	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-19 A	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-19	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

AC

REMARKS: do not see any tubing in well. Add new tubing. Removed new tubing after collecting MS & MSD collected for BTEX and 8260 B & SIM/ID Sample [redacted] found that there was previously tubing in well. Left older tubing in well.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

MW-19 MS 4 CG 40mL HCl 8260B, 8260C SIM/ID RFPP
MW-19 MSD "
MW-19 MS 1 PE 250 None Bromide APP
MSD "

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-20	SAMPLE ID: MW-20	DATE: 3.31.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 35 feet to 40 feet	STATIC DEPTH TO WATER (feet): 8.42	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (40 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37'	PURGING INITIATED AT: 0903	PURGING ENDED AT: 0925	TOTAL VOLUME PURGED (gallons): 1.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0919	0.7	0.70	0.08	8.57	5.45	23.51	242	0.37	2.55	clear	none	58.0
0922	0.24	0.94	0.08	8.57	5.41	23.60	248	0.35	2.65	color loss	noted	48.2
0925	0.24	1.18	0.08	8.57	5.43	23.60	251	0.32	2.09	clear	None	42.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0928	SAMPLING ENDED AT: 0942
PUMP OR TUBING DEPTH IN WELL (feet): 37'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um for dissolved metals
FIELD DECONTAMINATION: PUMP(Y/N) Y NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-20	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-20	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-20	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-21	SAMPLE ID: MW-21	DATE: 3.25.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 135 feet to 145 feet	STATIC DEPTH TO WATER (feet): 20.79	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (145 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 155 feet) + 0.25 gallons = .47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 140	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 140	PURGING INITIATED AT: 957	PURGING ENDED AT: 1027	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1017	1.0	1.0	.05	21.85	9.08	24.61	521	.69	39.4	cloudy	NONE	165
1019	.1	1.1	0.05	21.85	8.99	24.64	532	.64	19.9	clear		180.5
1021	.1	1.2	0.05	21.85	8.92	24.66	553	.62	19.6			186.1
1023	.1	1.3	0.05	21.90	8.74	24.64	565	.59	18.9			188
1025	.1	1.4	.05	21.90	8.62	24.65	576	.58	17.7			185
1027	.1	1.5	.05	21.90	8.59	24.69	576	.55	16.4			188

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK / RK /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Klunick	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1040
PUMP OR TUBING DEPTH IN WELL (feet): 140	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-21	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Small black debris. w/ initial purge. Well lid does not fit w/ plug on.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1115

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-22	SAMPLE ID: MW-22	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 277 feet to 297 feet	STATIC DEPTH TO WATER (feet): 18.88	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (297 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 300 feet) + 0.25 gallons = 0.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 287	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 287	PURGING INITIATED AT: 1122	PURGING ENDED AT: 1158	TOTAL VOLUME PURGED (gallons): 2.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1134	0.72	0.72	0.06	22.30	8.26	26.52	1006	0.33	6.22	no	moderate	-242.9
1140	0.36	1.08	0.06	23.02	8.23	26.61	1009	0.25	5.93	↓	↓	-259.5
1146	0.36	1.44	0.06	23.94	8.21	26.68	1007	0.23	5.37			-284.9
1152	0.36	1.80	0.06	24.61	8.22	26.78	1011	0.22	4.79			-298.4
1158	0.36	2.16	0.06	25.20	8.22	26.88	1011	0.21	4.06			-303.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Seder / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Seder / C. Holton	SAMPLING INITIATED AT: 1209	SAMPLING ENDED AT: 1212
PUMP OR TUBING DEPTH IN WELL (feet): 287	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ N TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-22	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: fire ants present

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-23	SAMPLE ID: MW-23	DATE: 3/24/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 152 feet to 172 feet	STATIC DEPTH TO WATER (feet): 22.05	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (172 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 172 feet) + 0.25 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 162	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 162	PURGING INITIATED AT: 0935	PURGING ENDED AT: 1002	TOTAL VOLUME PURGED (gallons): 1.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0950	0.94	0.94	0.0625	23.34	7.45	25.05	0.635	1.09	7.33	no	moderate	-164.5
0953	0.19	1.13	0.0625	23.39	7.45	25.08	0.635	0.64	4.26	↓	↓	-163.5
0956	0.19	1.32	0.0625	23.42	7.44	25.08	0.635	0.33	2.80			-168.6
0959	0.19	1.51	0.0625	23.44	7.44	25.07	0.635	0.27	2.76			-167.0
1002	0.19	1.70	0.0625	23.47	7.44	25.07	0.634	0.22	2.79			-170.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor J Cook /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1004	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~MW-23~~	~~1~~	~~PE~~	~~1 L~~	None	–	–	SM 2540C	APP	100
MW-23	1	PE	125 mL	None	–	–	Bromide 300	APP	100
~~MW-23~~	~~1~~	~~PE~~	~~250 mL~~	~~HNO3~~	–	–	6010B	APP	100
MW-23	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

MDS

MDS

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

0.19

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-24	SAMPLE ID: MW-24	DATE: 4/1/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30.5 feet to 35.5 feet	STATIC DEPTH TO WATER (feet): 8.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (35.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 140 feet) + 0.25 gallons = 0.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33	PURGING INITIATED AT: 1333	PURGING ENDED AT: 1345	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1339	0.6	0.6	0.1	8.83	5.51	27.38	641	0.64	19.0	no	slight	-87.2
1342	0.3	0.9	0.1	8.83	5.36	27.34	646	0.52	10.65	↓	↓	-52.8
1345	0.3	1.2	0.1	8.83	5.30	27.25	688	0.53	9.95	↓	↓	-45.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. HOLTON / ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Sedor / C. Holton	SAMPLING INITIATED AT: 1351	SAMPLING ENDED AT: 1405
PUMP OR TUBING DEPTH IN WELL (feet): 33	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45 um Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y/N TUBING(Y/N replaced) N DUPLICATE (Y/N): N MS/MSD collected

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-24	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-24	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-24	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
MW-24MS	4	CG	40ml	HCl	–	–	8260B/CSIM	RFPP	100
MW-24MSD	4	CG	40ml	HCl	–	–	8260B/CSIM	RFPP	100

REMARKS: calibration checked prior to purging; trash was being dumped during purge; field blank collected

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-25	SAMPLE ID:	MW-25	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	36.4 feet to 43.4 feet	7.17	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (43.4 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 53 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
39.4	39.4	1042	1054	1.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1048	0.54	0.54	0.09	7.91	6.25	26.97	385	0.47	4.21	No	moderate	-70.7
1051	0.27	0.81	0.09	7.92	6.19	26.92	373	0.28	3.46	↓	↓	-72.6
1054	0.27	1.08	0.09	7.92	6.06	26.82	383	0.25	2.27	↓	↓	-72.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor / C Holton /ARCADIS	Matthew D Sedor / C Holton	1102	1107

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
39.4	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-25	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-25	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-25	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-26	SAMPLE ID: MW-26	DATE: 3.30.09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 21.5 feet to 26.5 feet	STATIC DEPTH TO WATER (feet): 7.26	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (26.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23	PURGING INITIATED AT: 1425	PURGING ENDED AT: 1448	TOTAL VOLUME PURGED (gallons): 1.65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
									1.20			
1440	1.25	1.25	.05	7.90	7.04	23.25	638	2.28	7.98	clear	none	142.0
1442	.1	1.35	.05	7.90	7.02	23.34	639	.91	1.02	↓	↓	144.5
1444	.1	1.45	.05	7.90	7.01	23.44	638	.61	.88			146.8
1446	.1	1.55	.05	7.92	7.01	23.41	639	.53	.18			147.9
1448	.1	1.65	.05	7.90	7.00	23.44	638	.52	.12	↓	↓	148.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
S INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Palmer	SAMPLING INITIATED AT: 1450	SAMPLING ENDED AT: 1500
PUMP OR TUBING DEPTH IN WELL (feet): 23	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-26	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-26	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-26	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: partly Sunny + Warm

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-27	SAMPLE ID: MW-27	DATE: 3.25.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 6.08'	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (35 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32'	PURGING INITIATED AT: 1606	PURGING ENDED AT: 1638	TOTAL VOLUME PURGED (gallons): 0.32

2.58 ft

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1625	1.8	1.8	0.06	6.33	6.07	24.05	555	4.05	8.35	clear	none	123.3
1628	0.18	1.98	↓	Add 0.10 6.43	6.09	23.94	555	3.90	7.92	colorless	noted	125.1
1631	0.18	2.16		6.33	6.06	23.99	555	3.85	5.58	↓	↓	131.1
AC ~~1631~~	~~0.18~~	~~2.16~~										

6.33 dtw

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1640	SAMPLING ENDED AT: 1655

PUMP OR TUBING DEPTH IN WELL (feet): 32'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um

Filtration Equipment Type: Disposable Filter For one bottle only.

FIELD DECONTAMINATION: PUMP(Y/N) X NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-27	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-27	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-27	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100
MW-27	1	PE	250mL	none			Hach	App	100

REMARKS: ~~Hach Sample collected~~ AC

Hach: Fe = 0.35 mg/L XD 3/26/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-28	SAMPLE ID: MW-28	DATE: 3.27.08

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 6.27	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (30 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	PURGING INITIATED AT: 1407	PURGING ENDED AT: 1440	TOTAL VOLUME PURGED (gallons): 2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) ~~umhos/cm~~ or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1418	0.6	0.6	0.1	6.68	5.13	25.88	323	0.76	8.30	clear	none	89.3
1421	0.3	0.9	↓	6.59	5.16	25.81	324	0.56	11.0	colorless	none	89.8
1424	0.3	1.2		6.58	5.16	25.78	325	0.52	9.42	w	↓	90.4
1427	0.3	1.5		6.58	5.16	25.71	325	0.49	8.14	particles		89.2
					↓					↓		
					5.16 AC							

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1440	SAMPLING ENDED AT: 1500
PUMP OR TUBING DEPTH IN WELL (feet): 27'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um Filtered forone bottle only
FIELD DECONTAMINATION: PUMP(Y/N) Y NA	TUBING(Y/N replaced) ~~N~~ Y	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-28	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-28	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-28	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 5.32 mg/L x8 3/27/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-29	SAMPLE ID: MW-29	DATE: 3.26.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 6.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (30 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27	PURGING INITIATED AT: 1422	PURGING ENDED AT: 1604 AC 1504	TOTAL VOLUME PURGED (gallons): 2.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1436	0.5	0.5	0.05	6.52	5.78	25.67	519	6.09	16.5	clear	none noted	
1439	0.15	0.65		6.52	5.75	25.46	518	3.29	15.8	colorless		-360.6
1442	0.15	0.80		6.52	5.73	25.49	520	1.74	15.0	with		-240.4
1445	0.15	0.95		6.53	5.75	25.52	521	0.92	14.5	particulates		-340.1
1448	0.15	1.10		6.52	5.78	25.54	525	0.59	9.96			-166.4
1451	0.15	1.25		6.52	5.73	25.36	525	0.50	8.52			-226.9
1454	0.15	1.40		6.53	5.73	25.46	527	0.45	8.28			-215.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T... INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Gates /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1610 AC 1510 AC	SAMPLING ENDED AT: 1625 AC 1525 AC

PUMP OR TUBING DEPTH IN WELL (feet): 27	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45 um Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): one bottle only

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-29	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-29	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-29	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1415

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-30	SAMPLE ID: MW-30	DATE: 3/26/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23.5 feet to 28.5 feet	STATIC DEPTH TO WATER (feet): 6.50	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 130 feet) + 0.25 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26	PURGING INITIATED AT: 1435	PURGING ENDED AT: 1454	TOTAL VOLUME PURGED (gallons): 1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1442	0.56	0.56	0.08	10.15	6.73	28.04	758	0.50	2.32	No	moderate	-129.2
1445	0.24	0.80	0.08	11.05	6.72	27.94	745	0.58	2.47	↓	↓	-110.3
1448	0.24	1.04	0.08	11.95	6.71	27.79	737	0.41	1.80			-101.7
1451	0.24	1.28	0.08	12.75	6.70	27.74	733	0.37	2.43			-97.0
1454	0.24	1.52	0.08	13.56	6.70	27.87	732	0.32	1.82	↓	↓	-90.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / JCook /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Sedor /	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1522
PUMP OR TUBING DEPTH IN WELL (feet): 26	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N (MS/MSD)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-30	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-30	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-30	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
MW-30 MSD	4	CG	40	HCL	—	—	8260B/CSIM	RFPP	100
MW-30 MS	4	CG	40	HCL	—	—	8260B/CSIM	PFPP	100

REMARKS:
Needs well cap repair

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-31	SAMPLE ID: MW-31	DATE: 3/31/2009

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 275 feet to 295 feet	STATIC DEPTH TO WATER (feet): 18.46 RT 20.59	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (295 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 345 feet) + 0.25 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 285	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 285	PURGING INITIATED AT: 16:30	PURGING ENDED AT: 17:28	TOTAL VOLUME PURGED (gallons): 2.32

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
16:49	0.76	0.76	0.04	21.74	7.97	27.30	733	0.69	12.26	Clear	No	-92.6
17:07	0.72	1.48	0.04	22.94	7.68	27.59	763	0.49	4.32	Clear	No	-133.9
17:24	0.68	2.16	0.04	23.52	7.68	27.72	773	0.42	3.96	Clear	No	-145.3
17:26	0.08	2.24	0.04	23.56	7.67	27.76	774	0.44	3.67	Clear	No	-147.8
17:28	0.08	2.32	0.04	23.62	7.67	27.83	776	0.45	3.82	Clear	No	-149.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 17:29	SAMPLING ENDED AT: 17:35
PUMP OR TUBING DEPTH IN WELL (feet): 285	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-31	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

Pulled tubing from well, full of sand and silt at bottom 5'. Backflowed sand and silt into bucket and lowered back into well to midpoint of screen

REMARKS: Pumping at lowest purgerate possible; well continues to drawdown

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC facility		SITE LOCATION: Tallevast, FL	
WELL NO: MW-32	SAMPLE ID: MW-32		DATE: 3.23.09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16"	WELL SCREEN INTERVAL DEPTH: 24.5 feet to 29.5 feet	STATIC DEPTH TO WATER (feet): 7.44	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	PURGING INITIATED AT: 1142	PURGING ENDED AT: 1207	TOTAL VOLUME PURGED (gallons): ~~0.84~~ AC 1.38

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) ~~µmhos/cm~~ or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1155	0.60	0.6	0.06	~~8.35~~ AC 8.31	5.74	26.67	873	0.36	2.51	clear	slight	-65.0
	0.18			8.31		26.80	912	0.38	2.18 AC	colorless	↓	
1158	~~0.060~~	~~0.66~~ AC	0.00	8.33	5.70	26.80	912	0.38	2.18			-61.5
1201	~~0.060~~	~~0.72~~ AC	0.00	8.34	5.74	26.90	930	0.50	1.44			-69.2
1204	~~0.060~~ AC	~~0.78~~ AC	0.00	8.34	5.71	27.00	939	0.49	1.87	↓	↓	-68.4
	0.18	0.84										
	0.18	1.02										
	0.18	1.20										

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats/Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1208	SAMPLING ENDED AT: 1300
PUMP OR TUBING DEPTH IN WELL (feet): 27'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (X) N Filtration Equipment Type: one filtered.	FILTER SIZE: 0.45 µm
FIELD DECONTAMINATION: PUMP Y (N) NA TUBING Y (N replaced)		DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-32	1	PE	125mL	none	—	—	Bromide	APP	0.04 gpm
		PE	250mL	none	—	—	Hach	APP	
		PE	250mL	HNO_3	—	—	Filtered Mn Fe		
		PE	250mL	HNO_3	—	—	total Mn Fe		
VIC		PE	250mL	HNO_3	—	—	6010		
		PE	500mL	none	—	—	TDS		
REMARKS:		PE	250mL	none			Bromide Sulfate		

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

MW-32A 2 CG 40mL HCl — — 1666 APP 0.02
MW-32A 3 CG 40mL HCl — — 8260 SAVANNAH APP 0.02
MW-32A 3 CG 40mL none — — VOCs Denver APP 0.02
MW-32 3 CG 40mL HCl — — 8260 BrSIM ID RFPP 0.

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABL Facility	SITE LOCATION: Tallevast, FL	
WELL NO: MW-33	SAMPLE ID: MW-33	DATE: 3/23/09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 12.50	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (.0014 gallons/foot X 55' feet) + .25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~37'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37'	PURGING INITIATED AT: 1150	PURGING ENDED AT: 1204	TOTAL VOLUME PURGED (gallons): .80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1155	.35	.35	.075	12.62	6.76	26.85	833	0.34	3.17	clear	slight	-114.1
1158	.15	.50	↓	12.62	6.69	26.77	852	0.35	2.86	colorless		110.3
1201	.15	.65		12.62	6.65	26.75	894	0.32	2.16	↓	↓	105.9
1204	.15	.80		12.62	6.64	26.89	902	0.29	1.94			104.3

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Celerette / Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1205	SAMPLING ENDED AT: 1215
PUMP OR TUBING DEPTH IN WELL (feet): 37'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: (Y) N Filtration Equipment Type: Disp.	FILTER SIZE: .45 µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
Dissolved filtered MW-33	1	PE	250mL	HNO_3	–	–	~~FE/MN~~	APP	100
	~~1~~	~~PE~~	~~125mL~~	~~none~~	~~–~~	~~–~~	~~Bromide~~	~~APP~~	~~100~~
unfiltered	1	PE	250mL	HNO_3	–	–	Total FE/MN	APP	100
	4	CG	40mL	HCL	–	–	8260B	RFPP	100
Savanna	3	CG	40mL	HCL	MW-33A		8260B	APP	100
Denver	3	CG	40mL	none			8260B	APP	100
Flowers	REMARKS: 2	CG	40mL	HCL			82166	APP	100

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

UIC
- MW-33 250 mL 6010 APP 100 HNO_3
- MW-33 500 mL TDS APP 100 none
- MW-33 250 mL Bromide APP 100 none
  Sulfate

1600

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-34	SAMPLE ID: MW-34	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet 155	STATIC DEPTH TO WATER (feet): 24.70	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (155.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 155 feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 1617	PURGING ENDED AT: 1641	TOTAL VOLUME PURGED (gallons): 1.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1626	0.54	0.54	0.06	25.18	7.38	25.31	616	0.48	54.6	slight	moderate	-227.4
1632	0.36	0.90	0.06	25.19	7.38	25.33	614	0.32	14.4	clear	↓	-229.0
1635	0.18	1.08	0.06	25.20	7.38	25.36	614	0.23	4.49	↓	slight	-230.6
1638	0.18	1.26	0.06	25.21	7.38	25.39	614	0.25	1.84		↓	-236.0
1641	0.18	1.44	0.06	25.22	7.38	25.41	614	0.22	1.64			-212.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holton / ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Dsedor / C Holton	SAMPLING INITIATED AT: 1650	SAMPLING ENDED AT: 1656
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: NA um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-34	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-35	SAMPLE ID: MW-35	DATE: 3/20/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 5.87	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (30.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 70' feet) + 0.25 gallons = .35 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	PURGING INITIATED AT: 0935	PURGING ENDED AT: 0958	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0940	.35	.35	.075	6.22	5.51	23.00	1215	1.29	5.16	clear	slight	-21.0
0943	.15	.50	↓	6.22	5.44	23.20	1262	0.76	3.20	↓	↓	-28.4
0946	.15	.65		6.22	5.40	23.41	1267	0.63	3.74			-38.3
0949	.15	.80		6.22	5.35	23.44	1275	0.48	2.61			-42.4
0952	.15	.95		6.22	5.32	23.60	1272	0.46	2.33			-50.9
0955	.15	1.10		6.22	5.28	23.70	1273	0.36	2.26			-54.6
0958	.15	1.25		6.22	5.26	23.69	1273	0.37	1.69			-62.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Lacrette C. Woods / ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1000	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 27.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP (Y/N) N TUBING (Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-35					–	–	See attached Table		100
MW-35	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-35	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-35	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-35	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-35	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-35	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 8.04 mg/L; ~~0.9 mg/L~~ CL = 0.9 mg/L RD 3/24/09.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-35	SAMPLE ID: MW-35	DATE: 3/20/09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
S. Leverette, C. Woods /ARCADIS	[signature] Charles Woods	1000	1220
PUMP OR TUBING DEPTH IN WELL (feet): 27.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45µm
		Filtration Equipment Type: Disposable Filter	
FIELD DECONTAMINATION: PUMP(Y/N) N	TUBING(Y/N/replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-35	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-35	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-35	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-35	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-35	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-35	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-35	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-35	2	AG	1L	HCl	--	--	1664A	APP	100
MW-35	2	AG	1L	None	--	--	8081A	APP	100
MW-35	2	AG	1L	None	--	--	8151A	APP	100
MW-35	2	AG	1L	None	--	--	8270C	APP	100
MW-35	2	AG	1L	None	--	--	8270C	APP	100
MW-35	2	AG	1L	None	--	--	8082	APP	100
[illegible]	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
[illegible]	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-35	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-35	2	AG	1L	None	--	--	8141A	APP	100
MW-35	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-35	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-35	1	PE	250mL	None	--	--	200.7	APP	100
MW-35	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-36	SAMPLE ID:	MW-36	DATE: 3-19-09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	23 feet to 28 feet	STATIC DEPTH TO WATER (feet):	8.45	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	25	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	25	PURGING INITIATED AT:	846	PURGING ENDED AT:	916	TOTAL VOLUME PURGED (gallons):	1.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm ~~or uS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:02	.96	.96	.06	9.21	5.16	26.67	678	.36	25.40	none	none
906	.24	1.2	.06	9.21	5.16	26.82	681	.40	23.90	↓	↓
908	.12	1.32	.06	9.22	5.15	26.87	681	.36	21.0		
910	.12	1.44	.06	9.23	5.14	26.88	681	.33	19.1		
912	.12	1.56	.06	9.21	5.15	26.91	684	.31	15.5		
914	.12	1.68	.06	9.21	5.14	26.85	684	.27	13.0		
916	.12	1.80	.06	9.18	5.14	26.83	684	.26	12.8		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Dana Kilmer /ARCADIS	SAMPLER(S) SIGNATURE(S):	Dana Kilmer	SAMPLING INITIATED AT:	920	SAMPLING ENDED AT:	1100
PUMP OR TUBING DEPTH IN WELL (feet):	25	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N):	Y	FILTER SIZE:	0.45 um
				Filtration Equipment Type:	Disposable Filter		

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-36					--	--	See attached Table		100
MW-36	1	PE	1 L	None	–	--	SM 2540C	APP	100
MW-36	1	PE	125 mL	None	–	--	Bromide 300	APP	100
MW-36	1	PE	250 mL	HNO3	–	--	6010B	APP	100
MW-36	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-36	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-36	3	CG	40 mL	HCL	–	--	1666	RFPP	100
MW-36	3	CG	40 mL	HCL	–	--	8260B	RFPP	100
MW-36	3	CG	40 mL	None	–	--	8260B	RFPP	100
MW-36	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:
Hach: Fe = 8.52 mg/L; Cl = 0.9 mg/L ~~DD~~ 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-36	SAMPLE ID:	MW-36	DATE: 3-19-09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Sara Klinek /ARCADIS	Sara Klinek	920	1100

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
25.5	PE	Y	0.45µm

Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-36	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-36	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-36	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-36	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-36	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-36	1	PE	500mL	H2SO4	--	--	350.1	APP	100
	1	PE	500mL	None	--	--	SM 5540C	APP	100
	2	AG	1L	HCl	--	--	1664A	APP	100
MW-36	2	AG	1L	None	--	--	8081A	APP	100
MW-36	2	AG	1L	None	--	--	8151A	APP	100
MW-36	2	AG	1L	None	--	--	8270C	APP	100
MW-36	2	AG	1L	None	--	--	8270C	APP	100
MW-36	2	AG	1L	None	--	--	8082	APP	100
MW-36	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-36	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-36	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-36	2	AG	1L	None	--	--	8141A	APP	100
MW-36	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-36	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-36	1	PE	250mL	None	--	--	200.7	APP	100
MW-36	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-37	SAMPLE ID: MW-37	DATE: 3-19-09

PURGING DATA

Somewhat

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 13.34	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1341	PURGING ENDED AT: 1358	TOTAL VOLUME PURGED (gallons): 1.02

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1352	.66	.66	.06	13.50	6.55	28.01	1184	.44	1.49	none	none
1354	.12	.78	.06	13.5	6.54	28.04	1184	.33	.87	↓	↓
1356	.12	.90	.06	13.5	6.57	28.09	1183	.27	.89		
1358	.12	1.02	.06	13.5	6.58	28.18	1182	.24	.54		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Sara Kleiner /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kleiner	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: 1630
PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-37					–	–	See attached Table		100
MW-37	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-37	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-37	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-37	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-37	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-37	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-37	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-37	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-37	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Slight silting phenols bottles. Concrete work - cutting & grinding, washing

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Hach: Fe = 4.68 mg/L; Cl = 0.9 mg/L 2D 3/24/09

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-37	SAMPLE ID:	MW-37	DATE: 3-19-09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Sara Klimek /ARCADIS	Sara Klimek	1400	1630

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
38	PE	Y	0.45µm
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N)	TUBING(Y/N replaced)	DUPLICATE (Y/N):
Y	N	NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-37	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-37	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-37	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-37	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-37	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-37	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-37	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-37	2	AG	1L	HCl	--	--	1664A	APP	100
MW-37	2	AG	1L	None	--	--	8081A	APP	100
MW-37	2	AG	1L	None	--	--	8151A	APP	100
MW-37	2	AG	1L	None	--	--	8270C	APP	100
MW-37	2	AG	1L	None	--	--	8270C	APP	100
MW-37	2	AG	1L	None	--	--	8082	APP	100
MW-37	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-37	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-37	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-37	2	AG	1L	None	--	--	8141A	APP	100
MW-37	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-37	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-37	1	PE	250mL	None	--	--	200.7	APP	100
MW-37	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

VOA
Bromide
DIC
SVS
Fe Mn

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-38	SAMPLE ID:	MW-38	DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	23 feet to 28 feet	7.72	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 5025 AC feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
25'	25'	1004	1028	2.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm ~~or uS/cm~~	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10.15	1.2	1.2	0.1	8.18	4.98	27.73	530	0.90	5.77	Clear	None	95.1
10 18	0.3	1.5	0.1	8.19	4.98	27.91	536	0.49	3.65	↓	↓	89.7
1021	0.3	1.8	0.1	8.19	5.00	27.93	541	0.32	3.95			86.1
1024	0.3	2.1	0.1	8.19	5.00	28.01	545	0.26	3.53			83.6
10.27	0.3	2.4	0.1	8.19	5.06	27.99	547	0.23	2.78	↓	↓	82.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jon Kerstetter /ARCADIS		1032	1045

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
25'	PE	Filtration Equipment Type: Disposable Filter	Dissolved metals only

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-38	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-38	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-38	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-38	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-38	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-38	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-38	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-39	SAMPLE ID:	MW-39	DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet):	12.69	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	38'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	38'	PURGING INITIATED AT:	1022	PURGING ENDED AT:	1110	TOTAL VOLUME PURGED (gallons):	3.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1035	1.0	1.0	0.06	14.04	8.62	27.90	840	1.35	18.4	Clear	none	-48.6
1038	0.18	1.18		13.95	7.55	27.90	1195	0.50	41.6	colorless	noted	-94.8
1041	0.18	1.36		13.94	7.41	27.85	1284	0.08	27.8			-131.6
1044	0.18	1.54		13.94	7.42	27.68	1319	0.41	26.1			-155.0
1047	0.18	1.72		13.94	7.47	27.80	1347	0.30	21.0			-152.9
1050	0.18	1.90		13.93	7.44	27.64	1361	0.23	19.3			-154.2
1053	0.18	2.08		13.92	7.52	27.73	1358	0.20	16.2			-158.7
1056	0.18	2.26		13.92	7.42	27.84	1358	0.19	17.6			-159.3
						27.65 AC						

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./FT.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1110	SAMPLING ENDED AT:	1145
PUMP OR TUBING DEPTH IN WELL (feet):	38'	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N):	Y	FILTER SIZE:	0.45 um
				Filtration Equipment Type:	Disposable Filter	only one bottle filtered	

FIELD DECONTAMINATION: PUMP(Y/N) NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-39	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-39	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-39	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-39	3	CG	40 mL	HCL	--	--	1666	RFPP	100
MW-39	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
MW-39	3	CG	40 mL	None	--	--	8260B	RFPP	100
MW-39	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-40	SAMPLE ID:	MW-40	DATE: 3/19/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	23 feet to 28 feet	7.76	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
25.5	25.5	14:25	14:42	1.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
14:36	0.88	0.88	0.08	8.25	5.36	30.66	687	0.38	5.16	No	No	-317.0
14:39	0.24	1.12	0.08	8.25	5.35	30.73	694	0.36	4.26	No	No	-332.4
14:42	0.24	1.36	0.08	8.25	5.33	30.80	702	0.34	4.39	No	No	-339.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle Ryan Kontos /ARCADIS	Ryan Tuttle	14:43	16:30

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
25.5	PE	Y	0.45 um

Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-40					–	–	See attached Table		100
MW-40	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-40	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-40	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-40	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-40	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-40	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-40	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-40	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-40	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:
Hach: Fe = 9.87 mg/L; Cl = 0.9 mg/L RD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-40	SAMPLE ID: MW-40	DATE: 3/19/2009

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-40	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-40	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-40	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-40	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-40	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-40	1	PE	500mL	H2SO4	--	--	350.1	APP	100
[illegible]	1	PE	500mL	None	--	--	SM 5540C	APP	100
[illegible]	2	AG	1L	HCl	--	--	1664A	APP	100
MW-40	2	AG	1L	None	--	--	8081A	APP	100
MW-40	2	AG	1L	None	--	--	8151A	APP	100
MW-40	2	AG	1L	None	--	--	8270C	APP	100
MW-40	2	AG	1L	None	--	--	8270C	APP	100
MW-40	2	AG	1L	None	--	--	8082	APP	100
MW-40	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-40	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-40	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-40	2	AG	1L	None	--	--	8141A	APP	100
MW-40	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-40	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-40	1	PE	250mL	None	--	--	200.7	APP	100
MW-40	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-41	SAMPLE ID: MW-41	DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 12.80	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 0925	PURGING ENDED AT: 0950	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0930	0.3	0.3	0.06	13.01	6.45	26.95	1367	0.38	2.27	Clear	NONE	-268
0935	0.3	0.6	↓	13.01	6.46	26.89	1336	0.28	2.19			-312
0940	0.3	0.9		13.01	6.45	27.07	1385	0.26	2.30			-267
0945	0.3	1.2		13.01	6.47	27.24	1386	0.25	1.86			-308
0950	0.3	1.5		13.01	6.48	27.25	1380	0.25	1.99			-264

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos, J.Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0951	SAMPLING ENDED AT: 1006
PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-41	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-41	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-41	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-41	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-41	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-41	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-41	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-41	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-41	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 4.99 mg/L ZD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-42	SAMPLE ID: MW-42	DATE: 3-18-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 8.01 @ 15:32	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 3.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 15:40	PURGING ENDED AT: 1640	TOTAL VOLUME PURGED (gallons): 3.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
16:17	1.6	1.6	0.1	8.86	5.09	29.63	792	0.21	2.28	Clear	None	83.2
16:20	0.3	1.9	0.1	8.75	5.07	29.63	792	0.21	0.34	Clear	None	83.9
16:23	0.3	2.2	0.1	8.72	5.07	29.57	791	0.21	0.28	Clear	None	85.5
~~16:26~~												

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats + Jon Kestler /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1645	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING (Y/N replaced) N DUPLICATE (Y/N) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-42					–	--	See attached Table		100
~~MW-42~~	~~1~~	~~PE~~	~~1 L~~	~~None~~	~~–~~	~~--~~	~~SM 2540C~~	~~APP~~	~~100~~
MW-42	1	PE	125 mL	None	–	--	Bromide 300	APP	100
MW-42	1	PE	250 mL	HNO3	–	--	6010B	APP	100
~~MW-42~~	~~1~~	~~PE~~	~~250 mL~~	~~HNO3~~	~~–~~	~~--~~	~~6010B Dissolved Fe, Mn~~	~~APP~~	~~100~~
~~MW-42~~	~~1~~	~~PE~~	~~250 mL~~	~~HNO3~~	~~–~~	~~--~~	~~6010B Total Fe, Mn~~	~~APP~~	~~100~~
MW-42	3	CG	40 mL	HCL	–	--	1666	RFPP	100
MW-42	3	CG	40 mL	HCL	–	--	8260B	RFPP	100
MW-42	3	CG	40 mL	None	–	--	8260B	RFPP	100
MW-42	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS: RD 3/24/09
Hach: Fe = 4.40 mg/L; Cl = 2.1 mg/L add Filtered. Well does not have red label tag

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-42	SAMPLE ID: MW-42	DATE: 3-18-09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-42	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-42	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-42	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-42	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-42	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-42	1	PE	500mL	H2SO4	--	--	350.1	APP	100
[illegible]	1	PE	500mL	None	--	--	SM 5540C	APP	100
[illegible]	2	AG	1L	HCl	--	--	1664A	APP	100
MW-42	2	AG	1L	None	--	--	8081A	APP	100
MW-42	2	AG	1L	None	--	--	8151A	APP	100
MW-42	2	AG	1L	None	--	--	8270C	APP	100
MW-42	2	AG	1L	None	--	--	8270C	APP	100
MW-42	2	AG	1L	None	--	--	8082	APP	100
MW-42	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-42	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-42	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-42	2	AG	1L	None	--	--	8141A	APP	100
MW-42	1	PE	250mL	HNO3	--	--	6020, dissolved	APP	100
MW-42	1	PE	250mL	HNO3	--	--	6020, total	APP	100
MW-42	1	PE	250mL	None	--	--	200.7	APP	100
MW-42	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-43	SAMPLE ID: MW-43	DATE: 3.23.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 13.11	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1201	TOTAL VOLUME PURGED (gallons): 1.89

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1146	.54	.54	.09	13.23	6.52	27.91	1500	0.71	29.4	none	none
1148	.18	.72	.09	13.23	6.64	27.55	882	1.80	12.7		
1150	.18	.90	.09	13.23	6.45	27.83	1177	1.52	5.08		
1157	.18	1.53	.09	13.23	6.43	27.83	1399	1.08	9.39		
1159	.18	1.71	.09	13.23	6.48	27.77	1402	.92	10.83		
1201	.18	1.89	.09	13.23	6.47	27.74	1389	.88	9.25	↓	↓

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK / CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1205	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-43	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-43	1	PE	125 mL	None	collected	--	Bromide 300	APP	100
MW-43	1	PE	250 mL	HNO3		--	6010B	APP	100
MW-43	1	PE	250 mL	HNO3	collected	--	6010B Dissolved Fe, Mn	APP	100
MW-43	1	PE	250 mL	HNO3	collected	--	6010B Total Fe, Mn	APP	100
MW-43	3	CG	40 mL	HCL	collected	--	1666	RFPP	100
MW-43	3	CG	40 mL	HCL	collected	--	8260B	RFPP	100
MW-43	3	CG	40 mL	None	collected	--	8260B	RFPP	100
MW-43	4	CG	40 mL	HCL	collected	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-44	SAMPLE ID:	MW-44	DATE: 3/23/09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	142 feet to 152 feet	STATIC DEPTH TO WATER (feet):	24.37	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (152 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 152 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	147	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	147	PURGING INITIATED AT:	1450	PURGING ENDED AT:	1517	TOTAL VOLUME PURGED (gallons):	1.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1502	0.5	0.5	—	27.57	7.57	24.77	0.650	0.41	20	nD	moderate	-233.0
1505	0.18	0.68	0.06	27.08	7.55	24.76	0.651	0.28	20.8			-238.2
1508	0.18	0.86	0.06	28.29	7.55	24.74	0.651	0.26	19.0			-242.8
1511	0.18	1.04	0.06	28.59	7.54	24.78	0.653	0.26	19.1			-242.8
1514	0.18	1.22	0.06	28.79	7.53	24.81	0.653	0.21	17.8			-245.6
1517	0.18	1.40	0.06	28.91	7.52	24.85	0.654	0.24	17.8			-245.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor JCook /ARCADIS	Matthew D Sedor	1522	1550

PUMP OR TUBING DEPTH IN WELL (feet):	147	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
				Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-44	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-44	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-44	1	PE	250 mL	HNO3	--	--	6010B	APP	100
MW-44	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-44	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-44	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: stopped initially to clear flow cell

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-45	SAMPLE ID: MW-45	DATE: 3-27-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 150 feet to 160 feet	STATIC DEPTH TO WATER (feet): 22.19	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (160 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 155	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 155	PURGING INITIATED AT: 1035	PURGING ENDED AT: 1124	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
										silty		
1042	0.5	0.5	0.06	23.70	7.74	26.4	753	1.64	889	Cloudy	None	-268
1049	0.5	1.0		23.73	10.18	26.4	839	0.50	431	Cloudy		-349
1056	0.5	1.5		23.73	9.30	26.5	750	0.46	225	Cloudy		-346
1103	0.5	2.0		23.73	8.60	26.3	727	0.39	57.9	Clear		-291
1110	0.5	2.5		23.73	8.40	27.7	744	0.28	19.4			-207
1117	0.5	3.0		23.73	8.38	27.8	753	0.18	15.9			-193
1124	0.5	3.5		23.73	8.37	27.9	750	0.16	17.3			-190

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1.. .G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Leeuwte/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1129
PUMP OR TUBING DEPTH IN WELL (feet): 155	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-45	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

While collecting samples H²O cloudy

REMARKS:
* Silty at Beginning of Purge / cleared up

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Tallevast	SITE LOCATION:	Sarasota FL	
WELL NO:	MW-46	SAMPLE ID:	MW-46	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/16	280 feet to 300 feet	16.07	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X 310 feet) + gallons = 1.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
290	290	1335	1402	1.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1346	1.44	1.44	.09	17.60	8.60	28.44	626	1.18	68.4	cloudy	none	239
1349	.27	1.71	.09	17.87	8.09	28.56	662	.87	53.1	↓		288
1352	.27	1.98	.08	18.0	7.90	28.93	701	.72	42.8			250
1355	.24	1.22	.08	18.05	7.85	29.37	719	.65	28.7	↓		258
1358	.24	1.46	.08	18.13	7.82	29.54	724	.62	13.4	clear		266
1400	.24	1.40	.08	18.16	7.81	29.53	724	.57	12.6	↓		268
1402	.24	1.64	.08	18.20	7.81	29.56	724	.57	11.2	↓	↓	269

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEF/CW/Arcadis	Sara Kilmer	1403	1410

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
290	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW46	4	CG	40	HCl			8260		100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-47	SAMPLE ID: MW-47	DATE: 3-23-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 22 feet to 27 feet	STATIC DEPTH TO WATER (feet): 7.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (35 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	PURGING INITIATED AT: 0930	PURGING ENDED AT: 0945	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0933	0.3	0.3	0.10	8.04	6.67	23.36	777	0.94	12.8	clear	NONE	-287.1
0936	0.3	0.6	↓	8.04	6.69	23.63	782	0.68	9.29	↓	↓	-285.3
0939	0.3	0.9		8.04	6.68	23.71	804	0.80	8.34			-315.1
0942	0.3	1.2		8.04	6.70	23.78	799	0.69	6.84			-321.4
0945	0.3	1.5	↓	8.04	6.76	23.84	793	0.63	5.91	↓	↓	-271.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, J. Kerslatter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0946	SAMPLING ENDED AT: 0952
PUMP OR TUBING DEPTH IN WELL (feet): 24.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-47	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-47	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-47	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-47	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-47	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-47	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-48	SAMPLE ID:	MW-48	DATE: 3/30/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	33.5 feet to 38.5 feet	14.00'	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (38.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
36	36	14:14	14:39	1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
14:27	0.78	0.78	0.06	14.51	6.54	26.88	1153	0.59	25.9	Gray	No	-71.4
14:30	0.18	0.96	0.06	14.54	6.52	26.80	1153	0.46	23.1	No	No	-70.8
14:33	0.18	1.04	0.06	14.55	6.52	26.76	1153	0.43	12.6	No	No	-73.7
14:36	0.18	1.22	0.06	14.55	6.53	26.70	1151	0.29	4.44	No	No	-74.8
14:39	0.18	1.4	0.06	14.55	6.54	26.71	1152	0.24	3.68	No	No	-73.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	14:40	14:57

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
36	PE	Y	0.45 um

Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-48	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-48	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-48	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-49	SAMPLE ID: MW-49	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 146 feet to 156 feet	STATIC DEPTH TO WATER (feet): 21.0	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (156 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = .47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 151	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 151	PURGING INITIATED AT: 935	PURGING ENDED AT: 10:19	TOTAL VOLUME PURGED (gallons): 2.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
										Cloudy		
10:01	1.08	1.08	.06	23.95	7.36	25.98	578	.28	52.5	none	none	-150.5
10:04	.18	1.26	.06	24.08	7.35	25.97	578	.33	55.0			-180.3
10:07	.18	1.44	.06	24.17	7.36	24.97	578	.47	40.8			-180.2
10:10	.18	1.62	.06	24.23	7.36	25.00	578	.50	43.6			-183.2
10:13	.18	1.80	.06	24.30	7.35	25.08	579	.30	42.4			-192.8
10:16	.18	1.98	.06	24.39	7.35	25.06	579	.20	37.6			-189.1
10:19	.18	2.16	.06	24.48	7.35	25.08	580	.20	38.7	↓	↓	-196.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10:30	SAMPLING ENDED AT: 10:35

PUMP OR TUBING DEPTH IN WELL (feet): 151	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N FILTER SIZE: N\A um Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-49	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:
Sunny W/ WIND & NICE

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Fallen St	SITE LOCATION: Sarasota FL		
WELL NO: MW-50	SAMPLE ID: MW-50	DATE: 3-31-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 245 feet to 265 feet	STATIC DEPTH TO WATER (feet): 17.25	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 265 feet) + .25 gallons = .62 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 250	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 250	PURGING INITIATED AT: 1605	PURGING ENDED AT: 1633	TOTAL VOLUME PURGED (gallons): 1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1625	1.26	1.26	.08	17.98	7.54	27.91	630	1.86	314	clear	none-14
1627	.16	1.42	.08	18.10	7.61	27.48	661	.97	.67		-28
1629	.16	1.58	.08	18.12	7.66	27.38	680	.58	.31		-44
1631	.16	1.74	.08	18.13	7.66	27.24	682	.51	.65		-43
1633	.16	1.9	.08	18.13	7.67	27.31	683	.45	.77	↓	-45

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW/Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1633	SAMPLING ENDED AT: 1640
PUMP OR TUBING DEPTH IN WELL (feet): 250	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	4	CG	40	HCl			8260		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-51	SAMPLE ID:	MW-51	DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	261.6 feet to 271.6 feet	16.56	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (271.6 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 270 feet) + 0.25 gallons = .63 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
2660	2660	1415	1459	2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1433	.72	.72	.04	18.70	7.59	27.58	352	1.53	4.30	clear	none	-87.7
1451	.99	1.80	.04	23.30	7.44	25.53	321	.63	55.5	cloudy	↓	-65.1
1457	.12	1.92	.04	23.65	7.40	25.26	320	.56	51.5	↓	↓	-63.6
1459	.08	2.0	.04	29.64 23.93	7.39	25.12	319	.63	53.1	↓	↓	-57.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1500	1510

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
2660	PE	N Filtration Equipment Type: N\A	N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-51	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Grassin well vault

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC facility	SITE LOCATION: Tallevast FL	
WELL NO: MW-52	SAMPLE ID: MW-52	DATE: 3.27.09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): .1875	WELL SCREEN INTERVAL DEPTH: 147 feet to 157 feet	STATIC DEPTH TO WATER (feet): 18.67	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X ~~0.0014~~ AC 160 feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 147.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 147.8	PURGING INITIATED AT: 0912	PURGING ENDED AT: 1004	TOTAL VOLUME PURGED (gallons): 2.07

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) ~~µmhos/cm~~ or µS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0945	1.5	1.5	0.03	20.07	9.11	24.03	476	0.58	15.8	clear	none	-183
0948	0.09	1.59	↓	19.99	9.20	24.06	469	0.54	12.7	colorless	noted	-183
0951	0.09	1.68	↓	19.96	9.26	24.08	464	0.59	9.25	↓	↓	-185

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats / Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT: 1020
PUMP OR TUBING DEPTH IN WELL (feet): 147.8	TUBING MATERIAL CODE: PE	FIELD-FILTERED: (Y) N Filtration Equipment Type: 2 bottles	FILTER SIZE: .45 µm
FIELD DECONTAMINATION: PUMP Y N NA	TUBING Y (N replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-52	4	CG	40mL	HCl	—	—	8260 B+C	RFPP	110
↓	1	PE	250mL	HNO_3	—	—	6010B	APP	↓
↓	↓	↓	↓	↓	—	—	6010B dissolved	APP	↓
DUP-06	4	CG	40mL	HCl	—	—	8260B+C	RFPP	↓
↓	1	PE	250mL	HNO_3	—	—	6010B	APP	↓
↓	1	↓	↓	↓	—	—	6010B dissolved	APP	↓

REMARKS:
FB-03 collected (using lab DI)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-53	SAMPLE ID: MW-53	DATE: 3-27-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 141 feet to 151 feet	STATIC DEPTH TO WATER (feet): 19.41	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
= (151 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
150'	150'	1400	14:27	1.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1421	1.0	1.0	0.06	21.87	7.38	26.74	620	0.23	48.8	Clear	None	-174
1424	0.18	1.18	0.06	21.85	7.39	26.90	622	0.18	49.1	↓	↓	-175
1427	0.18	1.36	0.06	21.85	7.39	26.79	621	0.17	44.9	↓	↓	-178

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jon Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:44	SAMPLING ENDED AT: 15:02
PUMP OR TUBING DEPTH IN WELL (feet): 150'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) NA	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-53	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
MW53MS	4	CG	40mL	HCL			↓	↓	↓
AS MW-53									
MW-53-MSD	4	CG	40mL	HCL			↓	↓	↓

REMARKS: MS and MSD samples collected.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-54	SAMPLE ID: MW-54	DATE: 3/25/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 18.50	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (155.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 200' feet) + 0.25 gallons = .53 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~150'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~150'	PURGING INITIATED AT: 1620	PURGING ENDED AT: 1636	TOTAL VOLUME PURGED (gallons): .85

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OPD
1630	.55	.55	.050	19.18	7.41	24.72	596	0.56	18.4	clear	slight	-156.4
1633	.15	.70	↓	19.18	7.42	24.62	597	0.53	17.3	↓	↓	-167.0
1636	.15	.85		19.18	7.42	24.61	699	0.47	17.0			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1637	SAMPLING ENDED AT: 1641
PUMP OR TUBING DEPTH IN WELL (feet): 150'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-54	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1200

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-55	SAMPLE ID: MW-55	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 127 feet to 137 feet	STATIC DEPTH TO WATER (feet): 24.65	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (137 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 140 feet) + 0.25 gallons = 0.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 132	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 132	PURGING INITIATED AT: 1218	PURGING ENDED AT: 1244	TOTAL VOLUME PURGED (gallons): 1.82

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1226	0.56	0.56	0.07	26.85	10.51	26.53	649	0.28	45.2	cloudy	slight	-210.1
1229	0.21	0.77	0.07	27.13	10.20	26.57	625	0.26	32.5	↓	↓	-195.8
1232	0.21	0.98	0.07	27.33	9.79	26.68	586	0.24	22.9	clear		-193.7
1235	0.21	1.19	0.07	27.44	9.44	26.71	571	0.24	15.3			-194.9
1238	0.21	1.40	0.07	27.50	9.09	26.70	555	0.25	19.0			-212.8
1241	0.21	1.61	0.07	27.56	8.90	26.68	551	0.25	11.8			-205.6
1244	0.21	1.82	0.07	27.59	8.85	26.65	553	0.28	9.91	↓	↓	-207.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Holton	SAMPLING INITIATED AT: 1253	SAMPLING ENDED AT: 1303
PUMP OR TUBING DEPTH IN WELL (feet): 132	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ N TUBING(Y/N replaced) N DUPLICATE (Y/N): Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-55	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-55	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-55	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
Dup-11	4	CG	40ml	HCl	—	—	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

0945

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-56	SAMPLE ID: MW-56	DATE: 3/27/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 29.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (145 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 155 feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 0950	PURGING ENDED AT: 1038	TOTAL VOLUME PURGED (gallons): 1.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1008	0.54	0.54	0.03	29.82	7.54	24.49	588	0.69	60.5	cloudy	slight	+214.6
1014	0.18	0.72	0.03	29.88	7.60	24.95	602	0.47	23.8	no		-243.8
1020	0.18	0.90	0.03	29.88	7.54	25.06	604	0.41	15.0	no		-261.0
1026	0.18	1.08	0.03	29.91	7.54	25.20	607	0.37	14.9			-276.5
1032	0.18	1.26	0.03	29.20	7.58	25.08	605	0.38	17.7			-294.7
1038	0.18	1.44	0.03	29.92	7.54	25.33	608	0.32	19.0			-315.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor J Cost /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1049
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-56	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC facility	SITE LOCATION:	Tallevast FL	
WELL NO:	MW-57	SAMPLE ID:	MW-57	DATE: 3.23.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/16	136 feet to 146 feet	28.63	PE

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0 gallons + (.0014 gallons/foot X 150 feet) + .25 gallons = .46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
141	141	1553	1615	1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1603	0.76	0.76	0.07	24.59	8.71	26.55	423	.62	4.19	clear	none
1605	.14	0.90	0.07	24.62	9.61	26.34	391	.31	6.03	↓	↓
1607	.14	1.04	0.07	24.59	10.23	26.13	401	.28	3.16		
1609	.14	1.18	0.07	24.56	10.49	26.02	406	.27	1.43		
1611	.14	1.32	0.07	24.56	10.65	25.84	408	.29	2.73		
1613	.14	1.46	0.07	24.56	10.74	25.77	418	.24	2.13		
1615	.14	1.6	0.07	24.58	10.70	25.77	409	.24	3.68		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK / ARCADIS	Sara Kemler	1620	1635

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
141	PE		

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40mL	HCl			VOC		
	1	PE	125mL	none			Bromide		
	2	CG	40mL	HCl			Flower		
	3	GG	40mL	HCl			Savannah		
	3	GG	40mL	none			Denver		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1240

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-58	SAMPLE ID:	MW-58	DATE: 3/26/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	140 feet to 150 feet	23.94	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (150 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
145	145	1247	1306	1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1254	0.56	0.56	0.08	25.70	7.92	26.09	482	0.43	3.85	no	slight	-116.7
1257	0.24	0.80	0.08	25.82	7.69	26.21	497	0.26	4.34			-121.5
1300	0.24	1.04	0.08	25.90	7.59	26.28	516	0.22	7.84			-122.1
1303	0.24	1.28	0.08	25.94	7.53	26.30	536	0.18	8.29			-125.9
1306	0.24	1.52	0.08	25.95	7.51	26.31	548	0.17	10.93			-123.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor J Cook /ARCADIS	Matthew Sedor	1315	1332

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
145	PE	Y Filtration Equipment Type: Disposable Filter	0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-58	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-58	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-58	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-58	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-58	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-58	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-59	SAMPLE ID: MW-59	DATE: 3-25-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 140 feet to 150 feet	STATIC DEPTH TO WATER (feet): 20.59	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (150 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 145	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 145	PURGING INITIATED AT: 1503	PURGING ENDED AT: 1548	TOTAL VOLUME PURGED (gallons): 2.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1513	0.5	0.5	0.05	23.84	6.91	24.9	558	0.29	186	Cloudy	NONE	-186
1523	0.5	1.0	↓	23.88	7.00	24.8	549	0.23	101	↓	↓	-183
1533	0.5	1.5		23.88	7.13	24.7	549	0.18	93.6			-184
1543	0.5	2.0		23.90	7.14	24.6	546	0.16	90.9			-180
1548	0.25	2.25		23.91	7.18	24.6	547	0.17	89.1			-283

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, J. Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1549	SAMPLING ENDED AT: 1551
PUMP OR TUBING DEPTH IN WELL (feet): 145	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-59	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-60	SAMPLE ID: MW-60	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 20.48	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (155 feet - 175 feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 175 feet) + 0.25 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150'	PURGING INITIATED AT: 1603	PURGING ENDED AT: 1631	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1610	0.50	0.50	0.07	22.02	7.44	27.6	627	0.64	4.28	clear	slight	-159.1
1617	0.50	1.0	↓	22.02	7.35	27.6	631	0.55	5.33	↓	↓	-168.4
1624	0.50	1.5		22.02	7.34	27.5	632	0.51	2.75			-174.6
1631	0.50	2.0		22.02	7.32	27.5	631	0.42	2.60			-176.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1.. .G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos, S.Loverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1632	SAMPLING ENDED AT: 1637
PUMP OR TUBING DEPTH IN WELL (feet): 150'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (Y)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-60	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: DUP-12 *motor oil spill ~ 20' SE from well pad

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-61	SAMPLE ID: MW-61	DATE: 3-25-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 135 feet to 145 feet	STATIC DEPTH TO WATER (feet): 20.25 / 2025	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (145 feet - 100 feet) X gallons/foot = 0.47 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 140	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 140	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1310	0.5	0.5	0.05	22.60	9.00	26.7	517	0.71	112	Cloudy	NONE	-179
1320	0.5	1.0	↓	22.88	8.58	26.8	582	0.54	61.7	Cloudy	↓	-180
1330	0.5	1.5		23.20	8.39	26.9	588	0.39	17.4	Clear		-183
1340	0.5	2.0		23.30	8.43	27.0	592	0.34	18.1	↓		-187
1350	0.5	2.5		23.44	8.35	27.1	586	0.26	17.9			-185

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos / J. Kerstetter ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1351	SAMPLING ENDED AT: 1355
PUMP OR TUBING DEPTH IN WELL (feet): 140	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-61	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-62	SAMPLE ID: MW-62	DATE: 3-31-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 17.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 6.87	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (23 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1447	PURGING ENDED AT: 1503	TOTAL VOLUME PURGED (gallons): .96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1457	.6	.6	.06	7.30	5.91	25.43	739	.45	22.8	clear	none	-128.0
1459	.12	.72	.06	7.30	5.87	25.43	740	.40	15.0	"	"	-124.0
1501	.12	.84	.06	7.30	5.85	25.48	740	.36	14.2	"	"	-120
1503	.12	.96	.06	7.31	5.84	25.51	741	.33	13.4	↓	↓	-116.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Shea Kimel	SAMPLING INITIATED AT: 1505	SAMPLING ENDED AT: 1515
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-62	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-62	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-62	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; Q = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-63	SAMPLE ID:	MW-63	DATE: 3-23-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	25 feet to 30 feet	6.28	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (30 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
27.5	27.5	853	928	1.88

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
916	1.16	1.16	.06	6.55'	6.88	22.35	557	0.63	1.59	clear	none
918	.12	1.28	.06	6.56'	6.86	22.39	558	0.75	1.15		
920	.12	1.4	.06	6.59'	6.87	22.48	559	1.02	.72		
922	.12	1.52	.06	6.58'	6.89	22.57	560	1.17	.83		
924	.12	1.64	.06	6.58'	6.90	22.55	560	.91	.71		
926	.12	1.76	.06	6.58'	6.88	22.42	559	.65	.71		
928	.12	1.88	.06	6.58'	6.87	22.40	559	.43	.90		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
S. Kilmek /ARCADIS	Sara Kilmek	935	945

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
27.5	PE	N Filtration Equipment Type: N/A	N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~MW-63~~	~~1~~	~~PE~~	~~1 L~~	None	–	–	SM 2540C	APP	100
~~MW-63~~	~~1~~	~~PE~~	~~125 ml~~	None	–	–	Bromide 300	APP	100
MW-63	1	PE	250 mL	HNO3 collected	–	–	6010B	APP	100
MW-63	3X	CG	40 mL	HCL collected	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-64	SAMPLE ID:	MW-64	DATE: 3.27.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	25 feet to 30 feet	6.07	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (30 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
27'	27'	1114	1138 (1138)	1.94

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
				6.86								
1120	0.5	0.5	0.08	2.36	5.46	25.45	355	1.15	2.36	clear	none,	6.8
1123	0.24	0.74	AG 0.24	6.78	5.51	25.39	381	0.62	2.58	colorless	noted	-0.6
1126	0.24	0.98	AG 0.24	6.77	5.52	25.48	391	0.51	2.70	↓	↓	-4.9
1129	0.24	AG 1.22	0.08	6.75	6.53	25.44	395	0.50	1.28			-8.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
S INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Amy Coats for Kestrel/ARCADIS		1138	1150

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
27'	PE	Filtration Equipment Type: Disposable Filter for one bottle only	

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) Y N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-64	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-64	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-64	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-65	SAMPLE ID:	MW-65	DATE: 4/4/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	19 feet to 24 feet	6.25	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (24 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
21.5	21.5	1116	1136	1.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1121	.32	.32	0.096	6.66	6.52	23.4	425	1.20	47.9	Cloudy	Slight	-255
1126	.32	.64	↓	6.66	6.58	23.5	426	1.14	51.0	↓	↓	-253
1131	.32	.96		6.66	6.59	23.6	428	1.12	52.9			-257
1136	.32	1.28		6.66	6.61	23.6	429	1.05	51.1			-260

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
CG INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Rantos S. Leverette /ARCADIS		1137	1147

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
21.5	PE	Y	0.45 um

Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-65	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-65	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-65	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-66	SAMPLE ID:	MW-66	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	18.5 feet to 23.5 feet	6.6	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (23.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
21	21	940	954	.98

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
948	.56	.56	.07	6.95	5.67	24.74	329	1.49	1.53	clear	none	-39.2
950	.14	.70	.07	6.95	5.66	24.78	324	.88	1.04	"	"	-46.0
952	.14	.84	.07	6.95	5.65	24.83	318	.69	1.45	"	"	-52.1
954	.14	.98	.07	6.95	5.65	24.86	315	.74	.11	"	"	-56.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK / CW /ARCADIS	Sara Skinner	955	1005

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
21	PE	Y Filtration Equipment Type: Disposable Filter	0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-66	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-66	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-66	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Windy

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-67	SAMPLE ID: MW-67	DATE: 3/30/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 24 feet to 29 feet	STATIC DEPTH TO WATER (feet): 7.94	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (29 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26.5	PURGING INITIATED AT: 13:08	PURGING ENDED AT: 13:24	TOTAL VOLUME PURGED (gallons): 0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
13:15	0.42	0.42	0.06	8.42	5.53	25.58	440	0.49	4.92	Clear	No	-7.1
13:18	0.18	0.6	0.06	8.45	5.55	25.67	439	0.34	4.14	Clear	No	-21.2
13:21	0.18	0.78	0.06	8.47	5.47	25.85	439	0.28	2.25	Clear	No	8.2
13:24	0.18	0.96	0.06	8.48	5.54	25.76	441	0.29	5.39	Clear	No	8.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T... INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 13:25	SAMPLING ENDED AT: 13:49
PUMP OR TUBING DEPTH IN WELL (feet): 26.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-67	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-67	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-67	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida
WELL NO: MW-68	SAMPLE ID: MW-68
DATE: 3-23-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): ~~0.1875~~ 0.0014 2K	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 14.02	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38'	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1037	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1028	0.3	0.3	0.10	14.26	7.39	23.3	485	1.07	4.06	clear	NONE	308.1
1031	0.3	0.6	↓	14.26	7.40	23.5	491	0.36	1.89			315.1
1034	0.3	0.9		14.26	7.41	23.5	496	0.33	1.25			329.0
1037	0.3	1.2		14.26	7.40	23.6	499	0.35	1.90			336.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos J. Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1038	SAMPLING ENDED AT: 1048
PUMP OR TUBING DEPTH IN WELL (feet): 38'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-68	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-68	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-68	1	PE	250 mL	HNO3	--	--	6010B	APP	100
MW-68	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-68	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-68	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-69	SAMPLE ID: MW-69	DATE: 3-23-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 6.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1227	PURGING ENDED AT: 1247	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1232	0.3	0.3	0.06	7.25	6.03	25.23	586	0.67	3.29	Clear	NONE	-323.2
1237	0.3	0.6	↓	7.25	6.00	25.18	586	0.69	3.11			-328.1
1242	0.3	0.9		7.25	5.99	25.11	586	0.57	2.52			-337.2
1247	0.3	1.2		7.25	5.94	25.39	587	0.52	2.31	↓	↓	-335.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos, J Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1248	SAMPLING ENDED AT: 1258
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-69	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-69	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-69	1	PE	250 mL	HNO3	--	--	6010B	APP	100
MW-69	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-69	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-69	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

1540

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-70	SAMPLE ID: MW-70	DATE: 3/26/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 8.47	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (29 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 1555	PURGING ENDED AT: 1614	TOTAL VOLUME PURGED (gallons): 1.33

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1602	0.49	0.49	0.07	9.98	5.34	25.89	1023	0.82	3.43	no	slight	44.7
1605	0.21	0.7	0.07	10.10	5.32	25.96	1022	0.53	1.51	↓	↓	43.6
1608	0.21	0.91	0.07	10.06	5.32	26.17	1022	0.42	1.08			42.3
1611	0.21	1.12	0.07	10.00	5.32	26.40	1026	0.37	1.45			41.2
1614	0.21	1.33	0.07	9.97	5.32	26.40	1026	0.32	0.69			40.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MSedor / ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1637	SAMPLING ENDED AT: 1658
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-70	1	PE	250mL	None	--	--	Bromide 300	APP	100
MW-70	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-70	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-70	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100
MW-70	1	PE	500ml	None	—	—	TDS	APP	100
Dup-5	1	PE	500ml	none	—	—	TDS	APP	100
Dup-5	1	PE	250ml	none	—	—	Bromide 300	APP	100
Dup-5	1	PE	250ml	HNO3	—	—	Total metals	APP	100
Dup-5	4	CG	40 ml	HCl	—	—	8260B/CSIM	RFPP	100

REMARKS: FB-2 collected

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
W[illegible] NO: MW-71	SAMPLE ID: MW-71	DATE: 3/23/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 24 feet to 29 feet	STATIC DEPTH TO WATER (feet): 7.73	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (29.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 49 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26.5	PURGING INITIATED AT: 1255	PURGING ENDED AT: 1312	TOTAL VOLUME PURGED (gallons): 1.13

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1303	0.5	0.5	0.07	9.70	5.46	25.12	0.329	0.68	6.44	no	slight	-56.7
1306	0.21	0.71	0.07	9.77	5.45	25.27	0.334	0.46	5.94	↓	↓	-67.9
1309	0.21	0.92	0.07	9.84	5.48	25.32	0.334	0.41	5.34			-73.3
1312	0.21	1.13	0.07	9.83	5.48	25.41	0.339	0.27	4.62			-85.8

[illegible]APACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
[illegible]G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor JCook /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Sedor / JCook	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: 1342
PUMP OR TUBING DEPTH IN WELL (feet): 26.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): ~~Y~~ N Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-71	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-71	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-71	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-71	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-71	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-71	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

$\frac{\text{qal}}{\text{min}} \times \frac{\text{4 cups}}{1}$ $\frac{1 \text{ cup}}{56 \text{ sec}} \times \frac{1 \text{ qal}}{16 \text{ cups}} \times \frac{60 \text{ sec}}{1 \text{ min}} =$

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-72	SAMPLE ID:	MW-72	DATE: 3-23-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	23.5 feet to 28.5 feet	6.92	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (29 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
26	26	1512	1532	1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1517	0.3	0.3	0.06	7.38	5.51	27.6	1295	1.10	7.23	Clear	NONE	-290.6
1522	0.3	0.6	↓	7.38	5.50	27.8	1340	0.97	3.96	↓	↓	-300.3
1527	0.3	0.9		7.38	5.49	27.9	1355	0.86	4.81			-303.1
1532	0.3	1.2		7.38	5.56	27.9	1359	0.80	3.27			-294.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos /ARCADIS		1533	1548

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
26	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-72	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-72	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-72	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-72	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-72	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-72	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-72	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-72	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-72	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

0845

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-73	SAMPLE ID: MW-73	DATE: 3/27/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 22 feet to 27 feet	STATIC DEPTH TO WATER (feet): 5.82	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (27.4 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 52 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
24.5	24.5	0858	0913	1.03

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0904	0.4	0.4	0.07	6.53	5.08	22.28	1208	0.81	19.5	no	slight	61.9
0907	0.21	0.61	0.07	6.54	5.08	22.41	1212	0.71	18.5	↓	↓	59.7
0910	0.21	0.82	0.07	6.55	5.08	22.53	1215	0.62	18.5			57.8
0913	0.21	1.03	0.07	6.56	5.08	22.81	1215	0.53	15.4			55.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor J Cook /ARCADIS	Matthew Sedor	0917	0927

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
24.5	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-73	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-73	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-73	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

Hach: Fe = 15.00 mg/L 3/27/09

REMARKS: lawn mower running 40 feet away upwind during sampling; well needs lock
Hach collected

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-74	SAMPLE ID: MW-74	DATE: 3/18/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 27.5 feet to 32.5 feet	STATIC DEPTH TO WATER (feet): 6.24	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (33 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) 0 gallons + (0.0014 gallons/foot X 55 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~27.5~~ 30.0 (MD)	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~27.5~~ 30.0 (MD)	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1001	TOTAL VOLUME PURGED (gallons): 1.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units) (MD)	TEMP (deg C)	COND. (circle units) umhos/cm or ~~mS~~/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0952	0.4	0.4	0.06	6.28	~~6.09~~ 6.19	23.22	0.686	0.84	4.06	no	slight	-23.1
0955	0.6	1.0	0.2	6.30	6.21	23.47	0.679	0.87	2.38	↓	↓	-24.1
0958	0.2	1.2	0.07	6.32	6.23	23.57	0.681	0.76	1.44			-29.0
1001	0.1	1.3	0.03	6.34	6.24	23.51	0.682	0.64	1.75			-40.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette M. Sedor /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1008	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): ~~27.5~~ 30.0 (MDS)	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-74	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-74	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-74	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hot Hock Kit Taken * Hach: Fe = 7.52 mg/L; Cl = 0.0 mg/L ~~XD~~ 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-75	SAMPLE ID: MW-75	DATE: 3/24/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 39.5 feet 44.5 feet	STATIC DEPTH TO WATER (feet): 7.01	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (45 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 44.5 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1542	PURGING ENDED AT: 1556	TOTAL VOLUME PURGED (gallons): 1.12

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1550	0.64	0.64	0.08	9.00	5.27	24.98	0.508	0.36	12.04	no	no	4.8
1553	0.24	0.88	0.08	9.00	5.22	24.86	0.504	0.28	8.68	↓	↓	1.7
1556	0.24	1.12	0.08	9.00	5.15	24.97	0.508	0.26	8.11			-1.2

V. CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M Sedor JCoof /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1632
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) X N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-75	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-75	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-75	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: calibration verification prior to purging MDS

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-76	SAMPLE ID: MW-76	DATE: 3/25/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 7.56	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 53 feet) + 0.25 gallons = 0.35 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
25.5	25.5	1115	1131	1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1122	.7	.7	.1	8.71	5.52	24.90	0.251	0.80	11.5	no	slight	-14.6
1125	.3	1.0	.1	8.73	5.49	25.12	0.249	0.41	5.63	↓	↓	-22.9
1128	.3	1.3	.1	8.77	5.49	25.37	0.249	0.30	6.37			-29.6
1131	.3	1.6	.1	8.78	5.48	25.63	0.251	0.24	6.55			-34.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M.Seder J.Cook /ARCADIS	Mallhow	1139	1141

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
25.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-76	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-76	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-76	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-76	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach collected Hach: Fe = 6.20 mg/L RD 3/26/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-77	SAMPLE ID: MW-77	DATE: 3.19.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 36 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 11.32' (0.0901)	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 1.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38'	PURGING INITIATED AT: 0912	PURGING ENDED AT: 0948	TOTAL VOLUME PURGED (gallons): 2.34

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0934	1.5	1.5	0.06	11.41	6.57	24.06	921	0.65	0.68	clear	none	-90.5
0937	0.18	1.68	↓	11.42	6.59	24.09	924	0.57	0.66	colorless	↓	-92.1
0940	0.18	1.86	↓	11.42	6.61	24.08	925	0.50	0.97	↓	↓	-88.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Cook & Jon Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 38'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-77					–	–	See attached Table		100
MW-77	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-77	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-77	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:
Hach: Fe = 4.82 mg/L; Cl = 0.9 mg/L 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-77	SAMPLE ID: MW-77	DATE: 3/19/09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm
FIELD DECONTAMINATION: PUMP(Y/N) Y	TUBING(Y/N replaced) N	DUPLICATE (Y/N):	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-77	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-77	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-77	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-77	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-77	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-77	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-77	1	PE	~~500mL~~	None 1L	--	--	SM 5540C	APP	100
MW-77	2	AG	1L	HCl	--	--	1664A	APP	100
MW-77	2	AG	1L	None	--	--	8081A	APP	100
MW-77	2	AG	1L	None	--	--	8151A	APP	100
MW-77	2	AG	1L	None	--	--	8270C	APP	100
MW-77	2	AG	1L	None	--	--	8270C	APP	100
MW-77	2	AG	1L	None	--	--	8082	APP	100
	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-77	1	AG	~~1L~~ 250mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-77	2	AG	1L	None	--	--	8141A	APP	100
MW-77	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-77	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-77	1	PE	250mL	None	--	--	200.7	APP	100
MW-77	3	CG	40mL	HCl	--	--	524.2	RFPP	100

MW-77 | 1 | PE | 250mL | Nitric | A

REMARKS: field filtered sample collected.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

0840

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-78	SAMPLE ID: MW-78	DATE: 9/2/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 9.65	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0909	TOTAL VOLUME PURGED (gallons): 1.26

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0900	0.45	0.45	0.09	10.63	6.26	25.18	811	1.12	9.56	No	slight	-55.5
0903	0.27	0.72	0.09	10.66	6.27	25.31	834	0.58	5.79	No	moderate	-67.8
0906	0.27	0.99	0.09	10.66	6.28	25.33	849	0.44	3.79	↓	↓	-72.9
0909	0.27	1.26	0.09	10.67	6.33	25.39	862	0.37	1.71	↓	↓	-72.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M.Sedor / C. HOLTON /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Holton	SAMPLING INITIATED AT: 0918	SAMPLING ENDED AT: 0924
PUMP OR TUBING DEPTH IN WELL (feet): 38.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) X N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-78	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-78	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-78	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-79	SAMPLE ID:	MW-79	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	36 feet to 41 feet	11.64	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
38.5	38.5	0828	0843	.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0833	.32	.32	0.06	12.10	6.76	23.9	687	1.27	6.32	Clear	Slight	-294
0838	.32	.64	↓	12.10	6.70	24.1	687	1.14	5.01	↓	↓	-299
0843	.32	.96	↓	12.10	6.64	24.1	684	1.07	3.96	↓	↓	-300

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Lewette /ARCADIS		0844	0902

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
38.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-79	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-79	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-79	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 220D-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-80	SAMPLE ID: MW-80	DATE: 3-23-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 11.90	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	PURGING INITIATED AT: 1613	PURGING ENDED AT: 1643	TOTAL VOLUME PURGED (gallons): 1.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1618	0.3	0.3	0.06	12.21	7.13	28.69	1207	0.41	2.14	Clear	NONE	353.4
1623	0.3	0.6	↓	12.21	7.15	29.39	1245	0.33	2.04	↓	↓	342.1
1628	0.3	0.9		12.21	7.16	29.40	1272	0.29	2.20			349.0
1633	0.3	1.2		12.21	7.16	29.78	1292	0.27	1.96			351.3
1638	0.3	1.5		12.21	7.13	28.94	1290	0.25	2.42			327.2
1643	0.3	1.8		12.21	7.06	29.00	1294	0.25	2.39			349.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1644	SAMPLING ENDED AT: 1702
PUMP OR TUBING DEPTH IN WELL (feet): 38.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-80	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-80	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-80	1	PE	250 mL	HNO3	--	--	6010B	APP	100
MW-80	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-80	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-80	3	CG	40 mL	HCL	--	--	1666	RFPP	100
MW-80	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
MW-80	3	CG	40 mL	None	--	--	8260B	RFPP	100
MW-80	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100
REMARKS: 1 PE 125 mL None -- -- Sulfate 300 APP 100 -- Collected DUP-02									

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-81	SAMPLE ID: MW-81	DATE: 3/18/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 36 feet to 41 feet	STATIC DEPTH TO WATER (feet): 14.44	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X ----- gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 60 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5	PURGING INITIATED AT: 14:00	PURGING ENDED AT: 14:29	TOTAL VOLUME PURGED (gallons): 2.03

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
14:17	1.19	1.19	0.07	14.61	10.29	26.75	704	7.18	5.81	No	No	-203.8
14:20	0.21	1.4	0.07	14.61	10.19	26.63	780	7.20	3.95	No	No	-199.2
14:23	0.21	1.61	0.07	14.61	10.08	26.57	807	7.14	3.40	No	No	-199.1
14:26	0.21	1.82	0.07	14.61	10.04	26.54	825	7.23	2.01	No	No	-192.2
14:29	0.21	2.03	0.07	14.61	10.02	26.57	838	7.19	2.20	No	No	-192.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:30	SAMPLING ENDED AT: 17:20
PUMP OR TUBING DEPTH IN WELL (feet): 38.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-81					--	--	See attached Table		100
MW-81	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-81	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-81	1	PE	250 mL	HNO3	--	--	6010B	APP	100
MW-81	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-81	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-81	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:
Hach: Fe = 0.10 mg/L; Cl = 2.4 mg/L KD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-81	SAMPLE ID: MW-81	DATE: 3/18/2009

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45µm Filtration Equipment Type: Disposable Filter	
FIELD DECONTAMINATION: PUMP(Y/N) Y	TUBING(Y/N replaced) N	DUPLICATE (Y/N):	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID COOE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-81	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-81	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-81	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-81	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-81	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-81	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-81	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-81	2	AG	1L	HCl	--	--	1664A	APP	100
MW-81	2	AG	1L	None	--	--	8081A	APP	100
MW-81	2	AG	1L	None	--	--	8151A	APP	100
MW-81	2	AG	1L	None	--	--	8270C	APP	100
MW-81	2	AG	1L	None	--	--	8270C	APP	100
MW-81	2	AG	1L	None	--	--	8082	APP	100
[illegible]	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
[illegible]	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-81	AT → 1	AG	~~40mL~~ 250mL KP	H2SO4	--	--	SM 5310C	RFPP	100
MW-81	2	AG	1L	None	--	--	8141A	APP	100
MW-81	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-81	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-81	1	PE	250mL	None	--	--	200.7	APP	100
MW-81	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-82	SAMPLE ID: MW-82	DATE: 3/18/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 36.5 feet to 41.5 feet	STATIC DEPTH TO WATER (feet): 10.22	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (42 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 42 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~36.5~~ 39 (MDL)	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~36.5~~ 39 (MDL)	PURGING INITIATED AT: 1412	PURGING ENDED AT: 1430	TOTAL VOLUME PURGED (gallons): 1.3	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1421	0.4	0.4	0.04	11.08	7.00	24.57	0.459	0.40	1.48	no	slight	-34.8
1424	0.3	0.7	0.1	11.09	6.82	24.48	0.466	0.31	1.12	↓	↓	-66.8
1427	0.3	1.0	0.1	11.12	6.85	24.45	0.599	0.34	1.06			-79.4
1430	0.3	1.3	0.1	11.14	6.88	24.49	0.605	0.34	0.80			-84.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M.sedor S.Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1630
PUMP OR TUBING DEPTH IN WELL (feet): ~~36.5~~ 39 (MDS)	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-82					–	–	See attached Table		100
MW-82	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-82	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-82	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach Test collected Hach: Fe = 0.03 mg/L; Cl = 0.3 mg/L 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-82	SAMPLE ID: MW-82	DATE: 3/18/09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor / S. Leverette / ARCADIS	Matthew Dedon	1435	1630

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45µm
36.5'	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) * N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-82	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-82	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-82	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-82	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-82	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-82	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-82	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-82	2	AG	1L	HCl	--	--	1664A	APP	100
MW-82	2	AG	1L	None	--	--	8081A	APP	100
MW-82	2	AG	1L	None	--	--	8151A	APP	100
MW-82	2	AG	1L	None	--	--	8270C	APP	100
MW-82	2	AG	1L	None	--	--	8270C	APP	100
MW-82	2	AG	1L	None	--	--	8082	APP	100
[illegible]	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
[illegible]	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-82	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-82	2	AG	1L	None	--	--	8141A	APP	100
MW-82	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-82	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-82	1	PE	250mL	None	--	--	200.7	APP	100
MW-82	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS: * Hack Test Collected

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-83	SAMPLE ID:	MW-83	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	102 feet to 112 feet	18.10	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (112 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 115' feet) + 0.25 gallons = .41 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
107'	107'	1455	1515	1.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) ~~umhos/cm~~ or ~~uS/cm~~	DISSOLVED OXYGEN (~~circle units~~ ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1500	.41	.41	0.08	18.21	7.15	24.60	559	0.55	34.4	Cloudy	NONE	-327
1505	.41	.82	↓	18.21	7.10	24.3	554	0.45	18.9	Clear	↓	-336
1510	.41	1.23	↓	18.21	7.04	24.5	553	0.31	13.3	↓	↓	-306
1515	.41	1.64	↓	18.21	7.07	24.5	552	0.26	10.39	↓	↓	-280

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
S. Leverette K. Kontos /ARCADIS		1516	1521

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
107'	PE	N	N\A um

Filtration Equipment Type: N\A

FIELD DECONTAMINATION: PUMP(Y/N) N. TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-83	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

1500

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-84	SAMPLE ID: MW-84	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 12.23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (41 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 140 feet) + 0.25 gallons = 2.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1525	PURGING ENDED AT: 1543	TOTAL VOLUME PURGED (gallons): 1.62

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1531	0.54	0.54	0.09	12.53	6.71	28.24	1300	0.54	0.39	no	slight	-61.4
1534	0.27	0.81	0.09	12.54	6.71	28.04	1301	0.52	0.66	↓	↓	-60.5
1537	0.27	1.08	0.09	12.55	6.66	27.98	1292	0.40	0.54			-57.5
1540	0.27	1.35	0.09	12.56	6.59	27.86	1280	0.38	0.40			-54.8
1543	0.27	1.62	0.09	12.57	6.54	27.82	1265	0.36	0.45			-58.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Seder / C Holton / ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Seder / C Holton	SAMPLING INITIATED AT: 1550	SAMPLING ENDED AT: 1609
PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) X N TUBING(Y/N replaced) N DUPLICATE (Y/N): N MS/MSD collected

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-84	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-84	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-84	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-84	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-84	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-84	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
MW-84MS	4	CG	40mL	HCl	–	–	8260B/CSIM	RFPP	100
REMARKS: MW-84MSD	4	CG	40mL	HCl	–	–	8260B/CSIM	RFPP	100

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-85	SAMPLE ID: MW-85	DATE: 3/23/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 50 feet to 55 feet	STATIC DEPTH TO WATER (feet): 8.98	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (55 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55 feet) + 0.25 gallons = .33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 52.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 52.5	PURGING INITIATED AT: 1613	PURGING ENDED AT: 1633	TOTAL VOLUME PURGED (gallons): 1.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1621	0.5	0.5	—	9.64	6.68	26.20	0.345	0.51	1.47	no	moderate	-178.5
1624	0.24	0.74	0.08	9.66	7.03	26.24	0.571	0.22	0.83	↓	↓	-188.0
1627	0.24	0.98	0.08	9.67	7.13	26.20	0.699	0.17	0.24			-162.6
1630	0.24	1.22	0.08	9.69	7.18	26.26	0.748	0.18	0.12			-167.5
1633	0.24	1.46	0.08	9.69	7.22	26.22	0.786	0.21	0.09			-167.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M Sedor J Coats /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Sedor	SAMPLING INITIATED AT: 1646	SAMPLING ENDED AT: 1659
PUMP OR TUBING DEPTH IN WELL (feet): 52.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y/N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-85	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-85	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-85	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-85	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-85	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-85	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-86	SAMPLE ID: MW-86	DATE: 3/30/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 14.15	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (35 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X ~~32~~ 85 RT feet) + 0.25 gallons = 0.36 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 09:52	PURGING ENDED AT: 10:12	TOTAL VOLUME PURGED (gallons): 1.33

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:03	0.88	0.88	0.08	15.60	7.20	23.42	586	0.61	2.52	Clear	No	-36.3
10:06	0.15	1.03	0.05	15.55	7.16	23.43	588	0.57	1.79	Clear	No	-41.8
10:09	0.15	1.18	0.05	15.54	7.15	23.46	599	0.57	1.90	Clear	No	-38.7
10:12	0.15	1.33	0.05	15.55	7.14	23.53	603	0.63	1.59	Clear	No	-45.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 10:12	SAMPLING ENDED AT: 10:51
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-86	RT + 3	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-86	RT + 3	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-86	RT + 12	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

MS/MSD collected/Dup collected
Per M. Davidson (~~Don't~~ RT doesn't know Dup #)

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: ~~MW-75~~ MW-87	SAMPLE ID: ~~MW-75~~ MW-87	DATE: 3/24/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: ~~35~~ feet to ~~45~~ 41 feet	STATIC DEPTH TO WATER (feet): 8.27	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (45 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 51.0 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38.5'	PURGING INITIATED AT: 1434	PURGING ENDED AT: 1449	TOTAL VOLUME PURGED (gallons): 1.14

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1440	0.45	.45	.075	8.73	6.49	25.52	1.103	0.41	1.82	no	no	-117.5
1443	0.23	.68	.075	8.75	6.49	25.52	1.111	0.42	2.03	↓	↓	-117.4
1446	0.23	.91	.075	8.78	6.48	25.77	1.123	0.45	1.69			-103.8
1449	0.23	1.14	.075	8.81	6.47	25.35	1.138	0.30	1.48			-117.1

0.2 P

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M.Sedor JCook /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew DSedor JCook	SAMPLING INITIATED AT: 1459	SAMPLING ENDED AT: 1506
PUMP OR TUBING DEPTH IN WELL (feet): 38.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45 um Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
~~MW-75~~ MW-87	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
~~MW-75~~ MW-87	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
~~MW-75~~ MW-87	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Calibration verification prior to purging (MD3); Hach kit taken Hach: Fe = 5.49 mg/L KD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

$\frac{1c}{55s} \times \frac{60s}{1min} \times \frac{1gal}{16c} =$

Form FD 9000-24

1050

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-88	SAMPLE ID: MW-88	DATE: 3/27/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 76 feet to 86 feet	STATIC DEPTH TO WATER (feet): 25.97	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (86 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 86 feet) + 0.25 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 81	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 81	PURGING INITIATED AT: 1056	PURGING ENDED AT: 1114	TOTAL VOLUME PURGED (gallons): 1.26

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1105	0.63	0.63	0.07	28.76	8.78	24.95	317	0.61	5.96	no	slight	-254.9
1108	0.21	0.84	0.07	29.40	8.78	25.10	323	0.41	4.90	↓	↓	-260.1
1111	0.21	1.05	0.07	29.80	8.80	25.16	325	0.37	5.97			-296.6
1114	0.21	1.26	0.07	30.13	8.82	25.24	327	0.35	7.46			-294.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M.Sedor J Cook /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1118	SAMPLING ENDED AT: 1122
PUMP OR TUBING DEPTH IN WELL (feet): 81	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-88	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-89	SAMPLE ID: MW-89	DATE: 1-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 27 feet to 32 feet	STATIC DEPTH TO WATER (feet): 6.97	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (32 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.5	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1037	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) ORP
1031	1.12	1.12	.07	8.20	6.68	25.87	705	.94	4.25	none	none -106.5
1033	.14	1.26	.06	8.11	6.69	25.96	708	.70	1.54	"	" -106.0
1035	.12	1.38	.06	8.11	6.68	26.01	708	.64	0.53	"	" -103.5
1037	.12	1.5	.06	8.10	6.68	26.00	709	.61	0.33	"	" -103.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1038	SAMPLING ENDED AT: 1050

PUMP OR TUBING DEPTH IN WELL (feet): 29.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45 um Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-89	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-89	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-89	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-90	SAMPLE ID:	MW-90	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	25.5 feet to 30.5 feet	6.32	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (30.05 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
28	28	843	900	1.19

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
852	.63	.63	.07	7.17	6.39	24.37 25.18	601	2.16	1.80	clear	none	17.8
854	.14	.77	.07	7.18	6.43	24.38	600	2.08	1.73			-0.2
856	.14	.91	.07	7.19	6.48	24.42	599	1.62	.98			-23.2
858	.14	1.05	.07	7.18	6.51	24.45	599	1.67	1.55	↓	↓	-41.1
900	.14	1.19	.07	7.18	6.53	24.46	599	1.71	.83	↓	↓	-52.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
STEK/CW /ARCADIS		901	910

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
28	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-90	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-90	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-90	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

MW-90 MS/MSD

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-91	SAMPLE ID: MW-91	DATE: 3.23.09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 32.5 feet to 37.5 feet	STATIC DEPTH TO WATER (feet): 11.63 at 9.24	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (37.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50' feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35'	PURGING INITIATED AT: 0929	PURGING ENDED AT: 0955	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0940	1.0	1.0	.05	15.38	6.58	23.54	752	1.47	4.0	clear	slight	-80.2
0943	.20	1.20	↓	15.47	6.68	23.71	752	2.20	4.20	colorless		-74.8
0946	.20	1.40		15.53	6.70	23.59	752	2.05	4.41			-71.0
0949	.20	1.60		15.62	6.65	23.61	753	1.77	5.06			-75.7
0952	.20	1.80		15.67	6.64	23.66	753	1.73	4.08			
0955	.20	2.0		15.70	6.64	23.68	754	1.65	3.71			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Cook /ARCADIS, Steve Leverette	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0956	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 35'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-91	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-91	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-91	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-91	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-91	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-91	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-92	SAMPLE ID: MW-92	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 33 feet to 38 feet	STATIC DEPTH TO WATER (feet): 15.78	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (37.95 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.25 gallons = 31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.5	PURGING INITIATED AT: 13:33	PURGING ENDED AT: 13:56	TOTAL VOLUME PURGED (gallons): 1.84

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
13:44	1.84	1.84	.08	16.60	7.28	26.44	499	2.81	4.41	none	none	-102.7
13:47	.24	2.08	.08	16.67	7.26	26.40	506	.50	4.86	↓	↓	-106.0
13:50	.24	2.32	.08	16.70	7.24	26.44	512	.39	3.84			-101.9
13:53	.24	2.56	.08	16.75	7.23	26.52	522	.29	2.80			-101.5
13:56	.24	2.80	.08	16.77	7.21	26.47	529	.23	2.38	↓	↓	-104.9
~~13:59~~	↓											

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kelmer	SAMPLING INITIATED AT: 1357	SAMPLING ENDED AT: 1415
PUMP OR TUBING DEPTH IN WELL (feet): 35.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-92	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-92	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-92	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Sunny

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-93	SAMPLE ID: MW-93	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 33 feet to 38 feet	STATIC DEPTH TO WATER (feet): 15.21	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (37.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1528	PURGING ENDED AT: 1544	TOTAL VOLUME PURGED (gallons): 1.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1536	.58	.58	.07	16.42	7.17	25.73	353	720	19.3	clear	none 39.7
1538	.14	.72	.07	16.55	7.13	25.75	720	2.88	15.5	↓	23.2
1540	.14	.86	.06	16.61	7.11	25.69	723	1.97	12.2	↓	-2.9
1542	.12	.98	.06	16.65	7.11	25.68	723	1.64	10.98	↓	-30.8
1544	.12	1.1	.06	16.71	7.11	25.67	724	1.30	12.9	↓	↓ -44.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK ICW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1545	SAMPLING ENDED AT: 1555

PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-93	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-93	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-93	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-94	SAMPLE ID:	MW-94	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	24.5 feet to 29.5 feet	STATIC DEPTH TO WATER (feet):	5.55	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (29.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	27'	PURGING INITIATED AT:	1533	PURGING ENDED AT:	1600	TOTAL VOLUME PURGED (gallons):	1.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1538	0.32	0.32	0.010	5.66	6.10	25.0	505	1.11	82.5	Cloudy	Slight	-301
1543	0.32	0.64		5.66	6.04	25.0	506	0.80	84.3			-296
1548	0.32	0.96		5.66	6.03	25.6	510	0.57	78.5			-342
1551	0.18	1.14		5.66	6.04	25.6	509	0.46	52.1			-338
1554	0.18	1.32		5.66	6.01	25.4	506	0.40	45.7			-334
1557	0.18	1.50		5.66	6.00	25.6	506	0.37	41.7			-343
1600	0.18	1.68		5.66	6.00	25.6	504	0.33	40.9			-346
1603	0.18	1.86										
RK	RK	RK										

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kerhoas / Levratte /ARCADIS		1601	1606

PUMP OR TUBING DEPTH IN WELL (feet):	27'	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
				Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-94	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-94	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-94	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC facility	SITE LOCATION: Tallevast, FL	
WELL NO: MW-95	SAMPLE ID: MW-95	DATE: 3/23/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 5.26	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
~25 = 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5 AC	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~25 25.5 AC	PURGING INITIATED AT: 1526	PURGING ENDED AT: 1607	TOTAL VOLUME PURGED (gallons): 2.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % Saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1546	1.2	1.2	0.05	5.34	6.43	23.99	508	0.57	10.74	clear	none	20.6
1549	0.15	1.35		5.34	6.47	23.92	504	0.50	9.73	colorless		7.1
1552	0.15	1.50		5.34	6.42	24.17	502	0.81	9.09			-4.6
1555	0.15	1.65		5.34	6.37	24.98	508	0.92	9.27			-6.4
1558	0.15	1.80		5.33	6.37	25.25	510	0.58	9.17			-9.4
1601	0.15	1.95		5.33	6.44	25.50	513	0.36	8.06			-6.6
1604	0.15	2.10	↓	5.33	6.41	25.61	513	0.35	8.07	↓	↓	-20.2
1607	0.15	2.25		5.33	6.44	25.47	512	0.33	8.29			-25.9

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1608	SAMPLING ENDED AT: 1615
PUMP OR TUBING DEPTH IN WELL (feet): AC 25.5 ~25	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N) NA	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-95	4	CG	40mL	HCl			8260B + 8260C SIM/TI	RFPP	0.03 gpm

REMARKS: Weather changing. first cloudy + cool, then clouds moved, sun shone, temp. increased. Clouds blocked sun again.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Replace one bolt

Form FD 9000-24

RF VOCs Hach total Fe Mn w. chem filtered Fe Mn

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-95	SAMPLE ID: MW-95	DATE: 3.20.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): at 1335 5.23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (28 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~25	PURGING INITIATED AT: 1344	PURGING ENDED AT: 1415	TOTAL VOLUME PURGED (gallons): 2.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1402	1.4	1.4	0.05	5.43	6.37	23.34	489	2.02	7.29	clear	none	-24.5
1405	0.15	1.55	0.05	5.41	6.48	23.31	489	0.67	7.96	colorless		-48.9
1408	0.15	1.70	0.05	5.40	6.32	23.32	487	0.53	7.68	↓	↓	-38.0
1411	0.15	1.85	0.05	5.40	6.32	23.35	487	0.46	7.68			-35.7
1414	0.15	2.00	0.05	5.39	6.30	23.35	487	0.41	7.09			-34.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

1417 AC 1645

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats-Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1415 AC	SAMPLING ENDED AT: 1417 AC
PUMP OR TUBING DEPTH IN WELL (feet): ~25	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) Y N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-95					–	–	See attached Table		100
MW-95	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-95	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-95	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:
Replace 2 bolts Hach: Fe = 0.91 mg/L; Cl = 1.4 mg/L

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

[illegible] NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida		
[illegible] NO:	MW-95	SAMPLE ID:	MW-95	DATE:	3.20.09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1417	SAMPLING ENDED AT: 1645
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm
FIELD DECONTAMINATION: PUMP(Y/N) Y	TUBING(Y/N replaced) N	DUPLICATE (Y/N):	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-95	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-95	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-95	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-95	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-95	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-95	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-95	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-95	2	AG	1L	HCl	--	--	1664A	APP	100
MW-95	2	AG	1L	None	--	--	8081A	APP	100
MW-95	2	AG	1L	None	--	--	8151A	APP	100
MW-95	2	AG	1L	None	--	--	8270C	APP	100
MW-95	2	AG	1L	None	--	--	8270C	APP	100
MW-95	2	AG	1L	None	--	--	8082	APP	100
[illegible]	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
[illegible]	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-95	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-95	2	AG	1L	None	--	--	8141A	APP	100
MW-95	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-95	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-95	1	PE	250mL	None	--	--	200.7	APP	100
MW-95	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-96	SAMPLE ID: MW-96	DATE: 3.27.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 196 feet to 206 feet	STATIC DEPTH TO WATER (feet): 15.68	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (206.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 210 feet) + 0.25 gallons = 54 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 201	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 201	PURGING INITIATED AT: 1149	PURGING ENDED AT: 1229	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1218	1.16	1.16	.04	20.1	7.74	29.86	637	.14	18.9	clear	none	-280.6
1220	.08	1.24	.04	20.48	7.74	29.96	639	.13	17.0			-280.4
1223	.12	1.36	.04	20.55	7.76	30.26	642	.13	14.6			-292.6
1226	.12	1.48	.04	20.65	7.77	30.20	643	.11	11.8			-297.3
1228	.12	1.60	.04	20.74	7.79	30.19	644	.11	11.2	↓	↓	

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEIC/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1240
PUMP OR TUBING DEPTH IN WELL (feet): 201	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-96	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Windy, Boat Sanding, Dusty

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-97	SAMPLE ID: MW-97	DATE: 3.31.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 208 feet to 226 feet	STATIC DEPTH TO WATER (feet): 160.22	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (226.6 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 230 feet) + 0.25 gallons = .57 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 215	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 215	PURGING INITIATED AT: 914	PURGING ENDED AT: 949	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
932	.90	.90	.05	20.15	7.70	22.78	579	.25	1.41	clear	none	-238
934	.1	1.00	.05	20.20	7.70	22.82	594	.23	.41	↓	↓	-251
937	.15	1.15	.05	20.68	7.71	22.91	603	.24	.07			-247
940	.15	1.30	.05	20.53	7.70	23.06	618	.23	.07			-260
943	.15	1.45	.05	20.64	7.70	23.14	619	.23	1.16			-251
946	.15	1.60	.05	20.59	7.70	23.20	622	.22	.38			-253
949	.15	1.75	.05	20.60	7.71	22.32	625	.23	.28	↓	↓	-243

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JER/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 950	SAMPLING ENDED AT: 1000
PUMP OR TUBING DEPTH IN WELL (feet): 215	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-97	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-98	SAMPLE ID: MW-98	DATE: 3/23/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 33 feet to 38 feet	STATIC DEPTH TO WATER (feet): 6.37	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (39 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35.5	PURGING INITIATED AT: 952	PURGING ENDED AT: 1013	TOTAL VOLUME PURGED (gallons): 1.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10.02	0.5	0.5	0.05	8.85	6.42	23.03	1.183	1.15	1.33	no	no	-82.8
1005	0.25	0.75	0.08	9.05	6.44	23.08	1.185	1.04	1.33	no	no	-89.4
1008	0.25	1.00	0.08	9.25	6.45	23.14	1.187	0.62	0.85	no	no	-98.9
1011	0.25	1.25	0.08	9.39	6.46	23.19	1.188	0.54	0.48	no	no	-103.9
1013	0.25	1.50	0.08	9.46	6.46	23.21	1.189	0.50	0.42	no	no	-106.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sellon J Cook /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1022	SAMPLING ENDED AT: 1034
PUMP OR TUBING DEPTH IN WELL (feet): 35.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-98	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-98	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-98	1	PE	250 mL	HNO3	--	--	6010B	APP	100
MW-98	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-98	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-98	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-99	SAMPLE ID: MW-99	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 71 feet to 81 feet	STATIC DEPTH TO WATER (feet): 22.17	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (81 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 81 feet) + 0.25 gallons = 0.36 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 76	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 76	PURGING INITIATED AT: 1057	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 1.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1101	0.4	0.4	0.1	24.79	7.59	26.66	374	0.49	7.30	No	moderate	-172.1
1104	0.3	0.7	0.1	25.71	7.60	26.86	348	0.35	6.69	↓	↓	-185.6
1107	0.3	1.0	0.1	26.60	7.60	26.83	340	0.36	7.89			-190.3
1110	0.3	1.3	0.1	27.45	7.60	26.82	341	0.36	9.08			-195.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. HOLTON /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C. Holton	SAMPLING INITIATED AT: 1112	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet): 76	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-99	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-100	SAMPLE ID: MW-100	DATE: 3/23/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 7.39	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1119	TOTAL VOLUME PURGED (gallons): 0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1110	0.5	0.5	0.05	8.01	5.85	26.54	0.589	0.69	0.79	no	slight	-84.4
1113	0.15	0.65	0.05	8.07	5.82	26.71	0.605	0.44	0.59	↓	↓	-84.9
1116	0.15	0.8	0.05	—	5.81	26.72	0.625	0.29	0.59			-84.6
1119	0.15	0.95	0.05	—	5.78	26.70	0.660	0.22	0.73			-88.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor J. Cook /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1121	SAMPLING ENDED AT: 1143
PUMP OR TUBING DEPTH IN WELL (feet): 27.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-100	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-100	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-100	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-100	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-100	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-100	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1115

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-101	SAMPLE ID: MW-101	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 53 feet to 58 feet	STATIC DEPTH TO WATER (feet): 10.75	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 60 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 55.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 55.5	PURGING INITIATED AT: 1130	PURGING ENDED AT: 1143	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1137	0.6	0.6	0.1	11.59	7.38	25.64	419	0.99	3.66	no	slight	-79.3
1140	0.3	0.9	0.1	11.59	7.35	25.62	427	0.38	3.70	↓	↓	-80.2
1143	0.3	1.2	0.1	11.59	7.36	25.62	434	0.35	10.35	↓	↓	-84.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Holton	SAMPLING INITIATED AT: 1150	SAMPLING ENDED AT: 1158
PUMP OR TUBING DEPTH IN WELL (feet): 55.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-101	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-101	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-101	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-102	SAMPLE ID:	MW-102	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	90 feet to 100 feet	20.44	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
95	95	0918	0943	1.98

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0925	0.56	0.56	0.08	20.79	7.73	24.37	450	0.69	26.8	no	slight	-188.1
0928	0.24	0.80	0.08	20.82	7.55	24.49	549	0.54	60.3			-187.8
0931	0.24	1.02	0.08	20.84	7.38	24.54	727	0.50	56.7			-195.5
0934	0.24	1.26	0.08	20.85	7.32	24.60	1065	0.49	28.3			-182.1
0937	0.24	1.5	0.08	20.85	7.29	24.63	1189	0.42	15.9			-199.8
0940	0.24	1.74	0.08	20.85	7.28	24.66	1209	0.35	11.1			-208.9
0943	0.24	1.98	0.08	20.85	7.28	24.68	1223	0.30	7.81	↓	↓	-193.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor / C. Holton /ARCADIS	Matthew D Sedor / C. Holton	0943	0955

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
95	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-102	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-102	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-102	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-103	SAMPLE ID:	MW-103	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	25 feet to 30 feet	6.66	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
27.5	27.5	1012	1022	1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1016	0.4	0.4	0.1	7.04	6.29	23.44	323	3.33	6.64	no	no	27.6
1019	0.3	0.7	0.1	7.08	6.26	23.65	322	3.18	5.42	↓	↓	32.0
1022	0.3	1.0	0.1	7.10	6.26	23.87	324	3.20	4.28	↓	↓	39.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor / C. Holton /ARCADIS	Matthew D Sedor / C. Holton	1030	1036

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
27.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-103	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-103	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-103	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS: verify total depth Hach collected

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-104	SAMPLE ID: MW-104	DATE: 3-18-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 25.4 feet to 30.4 feet	STATIC DEPTH TO WATER (feet): 5.78' @ 10:00am	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28'	PURGING INITIATED AT: 1018	PURGING ENDED AT: 1144	TOTAL VOLUME PURGED (gallons): 3.90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1036	3.5	3.5	0.05	5.94	5.29	23.52	435	0.07	2.82	Clear	None	76.3
1039	.15	3.65	0.05	5.94	5.30	23.52	435	0.06	3.37	Clear	None	75.0
1042	.15	3.80	0.05	5.94	5.31	23.54	435	0.06	2.65	Clear	None	72.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats/Jon Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1200	SAMPLING ENDED AT: 1405
PUMP OR TUBING DEPTH IN WELL (feet): 28'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ NA	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-104					--	--	See attached Table		100
MW-104	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-104	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-104	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 7.68 mg/L; Cl = 0.2 mg/L JD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

[illegible] NAME:	ABC Facility		SITE LOCATION:	Tallevast Florida	
[illegible] NO:	MW-104	SAMPLE ID:	MW-104	DATE:	3-18-09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm
FIELD DECONTAMINATION: PUMP(Y/N) Y	TUBING(Y/N replaced) N	DUPLICATE (Y/N):	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-104	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-104	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-104	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-104	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-104	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-104	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-104	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-104	2	AG	1L	HCl	--	--	1664A	APP	100
MW-104	2	AG	1L	None	--	--	8081A	APP	100
MW-104	2	AG	1L	None	--	--	8151A	APP	100
MW-104	2	AG	1L	None	--	--	8270C	APP	100
MW-104	2	AG	1L	None	--	--	8270C	APP	100
MW-104	2	AG	1L	None	--	--	8082	APP	100
[illegible]	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
[illegible]	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-104	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-104	2	AG	1L	None	--	--	8141A	APP	100
MW-104	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-104	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-104	1	PE	250mL	None	--	--	200.7	APP	100
MW-104	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-105	SAMPLE ID: MW-105	DATE: 3/25/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 41.8 feet to 46.8 feet	STATIC DEPTH TO WATER (feet): 7.66	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32' gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.8'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44.8'	PURGING INITIATED AT: 1450	PURGING ENDED AT: 1501	TOTAL VOLUME PURGED (gallons): .65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1455	.35	.35	.060	7.84	7.39	25.28	496	0.48	5.84	clear	slight	-90.1
1458	.15	.50		7.84	7.38	25.20	496	0.44	3.19			-92.4
1500 1451	.15	.65		7.84	7.38	25.16	495	0.42	2.94			
1501												

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1502	SAMPLING ENDED AT: 1510
PUMP OR TUBING DEPTH IN WELL (feet): 44.8'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-105	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-105	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-105	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-106	SAMPLE ID: MW-106	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 9.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	PURGING INITIATED AT: 1032	PURGING ENDED AT: 1047	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1038	0.48	0.48	0.08	10.00	6.56	25.48	348	0.56	2.50	no	moderate	-88.3
1041	0.24	0.72	0.08	10.03	6.60	25.54	338	0.48	1.71	↓	↓	-86.7
1044	0.24	0.96	0.08	10.04	6.63	25.61	328	0.40	1.98			-74.4
1047	0.24	1.20	0.08	10.02	6.61	25.68	333	0.37	1.23			-68.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. HOLTON /ARCADIS	SAMPLER(S) SIGNATURE(S): matthew sedor / C. Holton	SAMPLING INITIATED AT: 1054	SAMPLING ENDED AT: 1059
PUMP OR TUBING DEPTH IN WELL (feet): 42.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-106	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-106	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-106	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-107	SAMPLE ID: MW-107	DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 21 feet to 26 feet	STATIC DEPTH TO WATER (feet): 5.75	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23.5	PURGING INITIATED AT: 1545	PURGING ENDED AT: 1559	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1555	.75	.75	.075	6.75	6.45	24.00	2796	.40	17.3	clear	none – 9.1
1557	.15	.90	.075	6.75	6.45	24.13	2799	.34	16.1	1	1 – 18.5
1559	.15	1.05	.075	6.75	6.44	24.14	2808	.31	15.8	1	1 – 30.2

ODP

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1610
PUMP OR TUBING DEPTH IN WELL (feet): 23.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-107	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-107	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-107	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

3 unfiltered 250mL/HNO3 Form FD 9000-24 Redundant Filtered 6020/6010B Dissolved Fe, Mn
2 filtered 250mL/HNO3

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-108	SAMPLE ID: MW-108	DATE: 3/18/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 5.36	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME RT 0.32
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = ~~0.37~~ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 09:30	PURGING ENDED AT: RT 10:16	TOTAL VOLUME PURGED (gallons): 4.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
09:41	1.1	1.1	0.10	5.69	6.06	23.90	551	1.00	5.95	No	No	10.0
09:44	0.3	1.4	0.10	5.70	6.06	24.07	554	0.92	5.82	No	No	1.4
09:47	0.3	1.7	0.10	5.70	6.04	24.54	559	0.64	4.95	No	No	-7.1
09:50	0.3	2	0.16	5.70	6.06	24.96	564	0.39	3.24	No	No	-15.4
09:53	0.3	2.3	0.10	5.70	6.06	25.12	566	0.42	2.80	No	No	-17.0
09:56	0.3	2.6	0.10	5.70	6.05	25.18	567	0.34	2.82	No	No	-24.4
09:59	0.3	2.9	0.10	5.70	6.09	25.24	568	0.36	2.49	No	No	-27.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle/Ryan Kontos/ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 10:16	SAMPLING ENDED AT: 12:00
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-108					–	–	See attached Table		100
MW-108	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-108	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-108	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-108	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-108	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-108	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 0.98 mg/L; Cl = 2.4 mg/L RD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-108	SAMPLE ID: MW-108	DATE: 3/18/2009

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-108	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-108	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-108	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-108	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-108	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-108	1	PE	~~500mL~~ 250mL AT	H2SO4	--	--	350.1	APP	100
MW-108	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-108	2	AG	1L	HCl	--	--	1664A	APP	100
MW-108	2	AG	1L	None	--	--	8081A	APP	100
MW-108	2	AG	1L	None	--	--	8151A	APP	100
MW-108	2	AG	1L	None	--	--	8270C	APP	100
MW-108	2	AG	1L	None	--	--	8270C	APP	100
MW-108	2	AG	1L	None	--	--	8082	APP	100
MW-108	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-108	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-108	1 ~~5~~ AT	AG	~~40mL~~ 250mL AT	H2SO4	--	--	SM 5310C	RFPP	100
MW-108	2	AG	1L	None	--	--	8141A	APP	100
MW-108	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-108	1	PE	250mL	HNO3	--	--	6020 / Filtered	APP	100
MW-108	1	PE	250mL	None	--	--	200.7	APP	100
MW-108	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-109	SAMPLE ID: MW-109	DATE: 3-25-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 7.20	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
25.5	25.5	0858	0918	1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0902	0.3	0.3	0.075	8.95	6.54	23.6	901	1.60	19.6	Clear	NONE	-170
0906	0.3	0.6	↓	8.95	6.56	23.7	896	1.51	18.7	↓	↓	-180
0910	0.3	0.9		8.95	6.59	23.8	887	1.01	18.0			-161
0914	0.3	1.2		8.95	6.61	24.0	891	0.77	16.3			-160
0918	0.3	1.5		8.95	6.63	24.0	893	0.66	12.8			-151

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Klimek /ARCADIS		0919	0929

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
25.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-109	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-109	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-109	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 1.93 mg/L RD 3/26/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-110	SAMPLE ID: MW-110	DATE: 3/19/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 6.79	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25.5	PURGING INITIATED AT: 09:23	PURGING ENDED AT: 10:15	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
09:34	0.33	0.33	0.03	7.56	6.15	22.13	789	0.91	38.7	Yellow	No	-323.4
09:45	0.33	0.66	0.03	7.56	6.25	22.53	799	0.51	32.6	No	No	-340.7
09:56	0.33	0.99	0.03	7.56	6.31	22.94	811	0.36	28.7	No	No	-347.3
09:59	~~0.33~~ 0.09	~~1.32~~ 1.08	0.03	7.56	6.32	23.13	815	0.31	21.5	No	No	-350.9
10:03	0.12	1.14	0.03	7.56	6.33	23.27	817	0.35	19.1	No	No	-354.7
10:06	0.09	1.23	0.03	7.56	6.35	23.45	819	0.30	19.2	No	No	-352.6
10:09	0.09	1.32	0.03	7.56	6.38	23.62	821	0.24	15.7	No	No	-359.3
10:12	0.09	1.41	0.03	7.56	6.37	23.75	822	0.28	14.9	No	No	-272.7
10:15	0.09	1.5	0.03	7.56	6.38	23.79	822	0.23	13.4	No	No	-319.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle Ryan Kenton /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 10:16	SAMPLING ENDED AT: 12:30
PUMP OR TUBING DEPTH IN WELL (feet): 25.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-110					–	–	See attached Table		100
MW-110	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-110	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-110	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 4.98 mg/L; Cl = 0.8 mg/L 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

GROUNDWATER SAMPLING LOG

NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-110	SAMPLE ID: MW-110	DATE: 3/19/2009

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm
FIELD DECONTAMINATION: PUMP(Y/N) Y	TUBING(Y/N replaced) N	DUPLICATE (Y/N):	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-110	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-110	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-110	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-110	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-110	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-110	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-110	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-110	2	AG	1L	HCl	--	--	1664A	APP	100
MW-110	2	AG	1L	None	--	--	8081A	APP	100
MW-110	2	AG	1L	None	--	--	8151A	APP	100
MW-110	2	AG	1L	None	--	--	8270C	APP	100
MW-110	2	AG	1L	None	--	--	8270C	APP	100
MW-110	2	AG	1L	None	--	--	8082	APP	100
MW-110	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-110	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-110	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-110	2	AG	1L	None	--	--	8141A	APP	100
MW-110	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-110	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-110	1	PE	250mL	None	--	--	200.7	APP	100
MW-110	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

1 of 2

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-111	SAMPLE ID: MW-111	DATE: 3/18/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 23 feet to 28 feet	STATIC DEPTH TO WATER (feet): 6.30	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 35 feet) + 0.25 gallons = .3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 902	PURGING ENDED AT: 928	TOTAL VOLUME PURGED (gallons): .96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ~~(gpm)~~ ml/min	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
916	.56	.56	~~410~~	6.58	6.29	22.94	648	.57	4.67	none	none
918	.08	.64	.04	6.59	6.28	22.90	645	.60	4.31		
922	.08	.72	.04	6.60	6.29	22.95	642	.57	3.41		
924	.08	.80	.04	6.60	6.30	22.95	645	.51	3.11		
926	.08	.88	.04	6.59	6.31	23.00	647	.42	2.98		
928	.08	.96	.04	6.59	6.31	23.02	646	.36	2.98		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Sara Klimek /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 935	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-111					--	--	See attached Table		100
MW-111	1 X	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-111	1 X	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-111	4 X	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 2.51 mg/L ; Cl = 0.2 mg/L RD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

2 of 2

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida
WELL NO: MW-111	SAMPLE ID: MW-111	DATE: 3-18-09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Sara Kimel /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kimel	SAMPLING INITIATED AT: 935	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm
FIELD DECONTAMINATION: PUMP(Y/N) Y	TUBING(Y/N replaced) N	DUPLICATE (Y/N):	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-111	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-111	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-111	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-111	1	PE	1L	None		--	SM 2320B, 300, 353.2	APP	100
MW-111	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-111	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-111	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-111	2	AG	1L	HCl	--	--	1664A	APP	100
MW-111	2	AG	1L	None	--	--	8081A	APP	100
MW-111	2	AG	1L	None	--	--	8151A	APP	100
MW-111	2	AG	1L	None	--	--	8270C	APP	100
MW-111	2	AG	1L	None	--	--	8270C	APP	100
MW-111	2	AG	1L	None	--	--	8082	APP	100
MW-111	1	PE	1L	None		--	SM 5210B, SM 4500 120.1	APP	100
MW-111	1	PE	1L	None		--	SM 2540C, SM 2540D	APP	100
MW-111	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-111	2	AG	1L	None	--	--	8141A	APP	100
MW-111	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-111	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-111	1	PE	250mL	None	--	--	200.7	APP	100
MW-111	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24 1506

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-112	SAMPLE ID: MW-112	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 76 feet to 86 feet	STATIC DEPTH TO WATER (feet): 25.23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = 0.37 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 81	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 81	PURGING INITIATED AT: 1513	PURGING ENDED AT: 1528	TOTAL VOLUME PURGED (gallons): 1.14

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1519	0.45	0.45	0.075	28.80	8.37	26.98	355	0.29	2.79	no	moderate	-224.2
1522	0.23	0.68	0.075	29.66	8.52	27.33	340	0.28	1.33	↓	↓	-232.1
1525	0.23	0.91	0.075	29.93	8.54	27.54	333	0.29	0.63			-232.6
1528	0.23	1.14	0.075	30.38	8.56	27.55	332	0.31	0.88			-233.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Sedor / C. Holton	SAMPLING INITIATED AT: 1534	SAMPLING ENDED AT: 1539
PUMP OR TUBING DEPTH IN WELL (feet): 81	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: NA um

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-112	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-113	SAMPLE ID:	MW-113	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	37 feet to 42 feet	STATIC DEPTH TO WATER (feet):	15.17	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	40	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	40	PURGING INITIATED AT:	11:05	PURGING ENDED AT:	11:21	TOTAL VOLUME PURGED (gallons):	1.12

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (~~gpm~~ mL/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
11:11	.48	.48	140	16.41	6.80	25.70	244	2.67	1.85	clear	none	64.5
11:13	.16	.64	.08	16.58	6.80	25.61	238	2.65	1.06	↓	↓	67.2
11:15	.12	.76	.06	16.75	6.75	25.64	239	2.50	1.59			58.8
11:17	.12	.88	.06	16.68	6.70	25.75	237	2.26	.40			58.7
11:19	.12	1.00	.06	16.62	6.69	25.81	233	2.43	.22			57.6
11:21	.12	1.12	.06	16.62	6.70	26.83	233	2.31	.16	↓	↓	57.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SEK / CW /ARCADIS	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	1128	SAMPLING ENDED AT:	1130

PUMP OR TUBING DEPTH IN WELL (feet):	40	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
				Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-113	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:		SITE LOCATION:	
WELL NO: MW-114	SAMPLE ID: MW-114		DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 35 feet to 40 feet	STATIC DEPTH TO WATER (feet): 5.34	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.004 gallons/foot X 45 feet) + .25 gallons = 31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	PURGING INITIATED AT: 1654	PURGING ENDED AT: 1706	TOTAL VOLUME PURGED (gallons): 1.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1700	.72	.72	.12	5.91	6.62	23.95	399	1.37	113	clear	none-10.6
1702	.24	.96	.12	5.90	6.63	23.97	392	.97	11.3	↓	-37.8
1704	.24	1.20	.12	5.90	6.63	23.90	390	.67	10.33		-56.8
1706	.24	1.44	.12	5.91	6.63	23.89	391	.50	6.19	↓	↓ -66.3

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW/Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1710	SAMPLING ENDED AT: 1720
PUMP OR TUBING DEPTH IN WELL (feet): 37.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	4	CG	40	HCl					
	2	PE	250	NITRIC ACID					

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-115	SAMPLE ID: MW-115	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 8.66	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	PURGING INITIATED AT: 0838	PURGING ENDED AT: 0905	TOTAL VOLUME PURGED (gallons): 1.62

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0846	.48	.48	.06	9.51	6.65	22.93	673	0.71	16.1	CLR	NONE	-21.0
0850	.24	.72	.06	9.51	6.66	23.10	673	1.93	16.1	CLR	NONE	-43.4
0853	.18	.90	.06	9.51	6.66	23.11	673	2.45	14.6			-46.4
0856	.18	1.08	.06	9.51	6.64	23.11	670	1.75	16.6			-58.1
0859	.18	1.26	.06	9.51	6.66	23.09	669	.94	13.5			-62.6
0902	.18	1.44	.06	9.51	6.62	23.05	668	.56	14.1			-70.2
0905	.18	1.62	.06	9.51	6.62	23.17	668	.49	12.8			-72.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J Cobb /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0909	SAMPLING ENDED AT: 0932
PUMP OR TUBING DEPTH IN WELL (feet): 22.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-115	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-115	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-115	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-116	SAMPLE ID:	MW-116	DATE: 4/1/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	21 feet to 26 feet	3.38	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
23.5	23.5	09:05	09:33	1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
09:12	0.35	0.35	0.05	4.15	7.06	23.90	658	2.02	8.14	Clear	No	9.6
09:15	0.15	0.5	0.05	4.15	7.01	24.27	663	1.40	7.42	Clear	No	-30.2
09:18	0.15	0.65	0.05	4.15	7.00	24.24	665	1.49	7.33	Clear	No	-55.7
09:21	0.15	0.8	0.05	4.15	6.95	24.04	664	2.01	7.16	Clear	No	-65.1
09:24	0.15	0.95	0.05	4.15	6.90	24.03	663	1.88	6.84	Clear	No	-62.3
09:27	0.15	1.1	0.05	4.15	6.93	24.63	669	1.26	5.96	Clear	No	-68.1
09:30	0.15	1.25	0.05	4.15	6.92	24.61	669	1.10	9.05	Clear	No	-75.9
09:33	0.15	1.4	0.05	4.15	6.89	24.48	668	0.99	8.65	Clear	No	-78.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
,G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	09:34	09:50

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
23.5	PE	Y	0.45 um

Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-116	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-116	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-116	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-117	SAMPLE ID: MW-117	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 37 feet to 42 feet	STATIC DEPTH TO WATER (feet): 3.73	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.5'	PURGING INITIATED AT: 0900	PURGING ENDED AT: 0918	TOTAL VOLUME PURGED (gallons): 0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	QDOR (describe)	ORP
0906	.32	.32	.050	9.03	7.32	23.5	568	1.00	1.72	Clear	Slight	-280
0912	.32	.64	↓	9.03	7.30	23.7	565	0.71	0.85	↓	↓	-318
0918	.32	.96	↓	9.03	7.29	23.7	565	0.70	0.74	↓	↓	

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette R. Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0919	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 39.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-117	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-117	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-117	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida
WELL NO:	MW-118	SAMPLE ID:	MW-118
DATE:	3/31/09		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	20 feet to 25 feet	STATIC DEPTH TO WATER (feet):	6.82	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	22.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	22.5'	PURGING INITIATED AT:	0938	PURGING ENDED AT:	0950	TOTAL VOLUME PURGED (gallons):	0.96 ~~0.950~~ RK

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0942	.32	.32	0.08	6.91	5.79	24.7	1077	0.65	3.91	Clear	Slight	-318
0946	.32	.64	↓	6.91	5.68	24.9	1096	0.68	6.59	↓	↓	-288
0950	.32	.96	↓	6.91	5.69	24.9	1112	0.68	6.02	↓	↓	-312

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	S. Levorette / R. Komos / ARCADIS	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	0951	SAMPLING ENDED AT:	~~09~~ 1002
PUMP OR TUBING DEPTH IN WELL (feet):	22.5'	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N):	(Y)	FILTER SIZE:	0.45 um
				Filtration Equipment Type:	Disposable Filter		

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-118	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-118	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-118	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-119	SAMPLE ID: MW-119	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 31 feet to 36 feet	STATIC DEPTH TO WATER (feet): 7.46	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33.5'	PURGING INITIATED AT: 1100	PURGING ENDED AT: 1126	TOTAL VOLUME PURGED (gallons): 1.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1105	.32	.32	.06	10.40	11.47	25.4	1366	0.58	13.4	clear	slight	-263.4
1110	.32	.64	↓	10.40	11.39	25.4	1299	1.25	13.6	↓	↓	-255.9
1115	.32	.96		10.40	11.28	25.6	960	1.94	13.3			-247.3
1120	.32	1.28		10.40	11.33	25.9	945	1.99	9.00			-246.8
1123	.18	1.46		10.40	11.33	26.0	940	1.99	8.92			-245.4
1126	.18	1.64		10.40	11.32	26.0	938	1.95	8.90			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: V. Leveille A. Kontos, /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1127	SAMPLING ENDED AT: 1131
PUMP OR TUBING DEPTH IN WELL (feet): 33.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-119	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-120	SAMPLE ID: MW-120	DATE: 3/3/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 4.06	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5'	PURGING INITIATED AT: 1024	PURGING ENDED AT: 1044	TOTAL VOLUME PURGED (gallons): 1.28 to 4 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1029	.32	.32	0.06	4.50	6.61	25.9	856	0.90	4.19	Clear	Slight	-313.4
1034	.32	.64	↓	4.50	6.60	25.3	838	0.70	3.12	↓	↓	-339.1
1039	.32	.96		4.50	6.57	25.3	835	0.46	3.16			-310.2
1044	.32	1.28		4.50	6.58	25.4	839	0.35	2.96			-333.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Lacrette, R. Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1056
PUMP OR TUBING DEPTH IN WELL (feet): 22.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-120	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-120	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-120	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

1485

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-121	SAMPLE ID: MW-121	DATE: 3/25/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 18 feet to 23 feet	STATIC DEPTH TO WATER (feet): 8.43	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.5	PURGING INITIATED AT: 1455	PURGING ENDED AT: 1509	TOTAL VOLUME PURGED (gallons): 1.12

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1503	0.64	0.64	0.08	9.89	6.84	25.06	0.622	0.30	0.91	slight	no	-173.3
1506	0.24	0.88	0.08	9.96	6.82	25.16	0.623	0.31	0.59	↓	↓	-167.3
1509	0.24	1.12	0.08	10.00	6.79	25.14	0.621	0.28	0.59	↓	↓	-166.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor J Coat /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1518	SAMPLING ENDED AT: 1525
PUMP OR TUBING DEPTH IN WELL (feet): 20.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-121	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-121	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-121	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-122	SAMPLE ID:	MW-122	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	21 feet to 26 feet	STATIC DEPTH TO WATER (feet):	7.20	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	23.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	23.5	PURGING INITIATED AT:	0952	PURGING ENDED AT:	1004	TOTAL VOLUME PURGED (gallons):	0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0956	0.3	0.3	0.075	7.64	6.99	24.8	923	0.43	3.90	clear	slight	-312
1000	0.3	0.6	↓	7.64	7.02	24.9	925	0.41	3.56	↓	↓	-309
1004	0.3	0.9	↓	7.64	7.03	24.9	926	0.39	2.81	↓	↓	-306

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Leverette /ARCADIS		1005	1017

PUMP OR TUBING DEPTH IN WELL (feet):	23.5	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
				Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-122	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-122	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-122	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-123	SAMPLE ID: MW-123	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 375 feet to 395 feet	STATIC DEPTH TO WATER (feet): 20.92	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 395 feet) + 0.25 gallons = 0.8 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 385'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 385'	PURGING INITIATED AT: 1345	PURGING ENDED AT: 1445	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1357	0.8	0.8	0.06	21.73	8.68	~~8.68~~ 28.0	1207	0.55	81.4	Cloudy	Slight	-325
1409	0.8	1.6	↓	21.73	8.61	28.1	1214	0.41	68.3	↓	↓	-328
1421	0.8	2.4		21.73	8.40	28.2	1231	0.19	19.7			-369
1433	0.8	3.2		21.73	8.31	28.1	1230	0.17	9.12	clear		-373
1445	0.8	4.0		21.73	8.30	28.1	1232	0.15	6.34	clear		-376

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S Lovcrette R. Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1446	SAMPLING ENDED AT: 1458
PUMP OR TUBING DEPTH IN WELL (feet): 385'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-123	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-123	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-123	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-123	4 8	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: * collected MS/MSD *

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-124	SAMPLE ID:	MW-124	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	127 feet to 137 feet	17.65	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = MIS gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 140 feet) + 0.25 gallons = 6.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
133	133	0945	1004	1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0952	0.56	0.56	0.08	21.00	7.29	27.56	1220	0.26	7.60	no	strong	-205.9
0955	0.24	0.80	0.08	21.25	7.29	27.51	1214	0.21	5.90	↓	↓	-210.8
0958	0.24	1.04	0.08	21.79	7.30	27.49	1209	0.18	5.90			-222.0
1001	0.24	1.28	0.08	22.45	7.30	27.49	1208	0.16	8.08			-225.9
1004	0.24	1.52	0.08	22.61	7.30	27.45	1210	0.15	7.93			-220.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor / C. Hoc /ARCADIS	Matthew D. Sedor / C. Hoc	1008	1012

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
133	PE	N	N\A um

Filtration Equipment Type: N\A

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-124	4	CG	40 mL	HCL	–		8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

$\frac{1\,c}{46\,sec} \times \frac{60\,s}{1\,m} \times \frac{19}{16\,c} =$

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
NO: MW-125	SAMPLE ID: MW-125	DATE: 3/31/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 9.77	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 08:40	PURGING ENDED AT: 09:09	TOTAL VOLUME PURGED (gallons): 1.45

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet) *	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
09:01	1.05	1.05	0.05	22.30	8.49	24.29	280	3.45	3.12	Clear	No	176.3
09:04	0.15	1.2	0.05	23.00	8.51	24.34	282	3.47	1.89	Clear	No	172.4
~~09:07~~ RT	~~0.15~~	~~1.35~~	~~0.05~~							~~Clear~~	~~No~~	
09:09	0.25	1.45	0.05	24.37	8.54	24.36	285	3.31	1.63	Clear	No	166.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 09:10	SAMPLING ENDED AT: 09:23
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-125	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: *Pump at lowest possible flow rate; well still drawing down

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

1545

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-126	SAMPLE ID: MW-126	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 27 feet to 32 feet	STATIC DEPTH TO WATER (feet): 9.32	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = MPS gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 47 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29.5	PURGING INITIATED AT: 1550	PURGING ENDED AT: 1610	TOTAL VOLUME PURGED (gallons): 1.82

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1555	.5	.5	0.10	12.77	6.37	26.25	722	1.80	27.9	slight	no	12.8
1558	.3	.8	0.10	13.18	6.37	26.13	723	1.60	32.6	↓	↓	14.7
1601	.3	1.10	0.10	13.97	6.38	26.24	730	1.56	34.3			6.6
1604	.24	1.34	0.075	14.23	6.43	26.49	741	1.33	31.6			-15.9
1607	.24	1.58	0.075	15.14	6.44	26.50	753	1.21	34.9			-35.5
1610	.24	1.82	0.075	15.38	6.44	26.56	775	0.91	34.8			-62.5
~~1613~~ (MPS)												

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Matt	SAMPLING INITIATED AT: 1618	SAMPLING ENDED AT: 1621
PUMP OR TUBING DEPTH IN WELL (feet): 29.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-126	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-126	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-126	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: High turbidity

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-127	SAMPLE ID: MW-127	DATE: 3/19/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 20.18	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (110 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = 0.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~105'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105'	PURGING INITIATED AT: 928	PURGING ENDED AT: 0951	TOTAL VOLUME PURGED (gallons): 0.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0942	0.5	0.5	0.05	21.57	6.97	27.02	1.235	0.43	0.38	clear	moderate	-138.3
0945	0.5	0.65	0.05	21.57	6.96	27.00	1.233	0.19	0.19	↓	↓	-129.1
0948	0.5	0.8	0.05	21.57	6.95	27.00	1.233	0.33	0.34			-129.7
0951	0.5	0.95	0.05	21.56	6.95	26.99	1.235	0.28	0.42	↓	↓	-133.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1. .G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S.Leverette, M.Sedor /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Dsleder	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 105"	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-127					–	–	See attached Table		100
MW-127	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-127	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-127	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-127	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-127	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-127	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-127	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-127	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-127	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach sample collected ; 3 purge volumes (~1.5 gal) collected but not recorded due to intermitent pumping due to leaking flowcell

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Hach: Fe = 0.00 mg/L; Cl = 0.5 mg/L 2D 3/24/09

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-127	SAMPLE ID: MW-127		DATE: 3/19/09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Lacrette M. Sedor / ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Sedor	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 105'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45µm
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-127	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-127	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-127	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-127	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-127	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-127	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-127	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-127	2	AG	1L	HCl	--	--	1664A	APP	100
MW-127	2	AG	1L	None	--	--	8081A	APP	100
MW-127	2	AG	1L	None	--	--	8151A	APP	100
MW-127	2	AG	1L	None	--	--	8270C	APP	100
MW-127	2	AG	1L	None	--	--	8270C	APP	100
MW-127	2	AG	1L	None	--	--	8082	APP	100
MW-127	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-127	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-127	3	AG	40mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-127	2	AG	1L	None	--	--	8141A	APP	100
MW-127	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-127	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-127	1	PE	250mL	None	--	--	200.7	APP	100
MW-127	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

page 1 of 2

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-128	SAMPLE ID:	MW-128	DATE: 3-18-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	140 feet to 150 feet	23.87	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (150 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 190 feet) + 0.25 gallons = .52 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
145	145	1418	1504	2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1438	1.0	1.0	.05	26.01	11.40	29.96	1294	1.34	20.5	clear	none
1440	.1	1.1	.05	26.10	11.42	30.26	1309	1.25	26.8	↓	↓
1458	.9	2.0	.05	27.00	11.41	30.08	1179	1.40	30.6		
1500	.1	2.1	.05	27.04	11.40	30.09	1169	1.56	26.7		
1502	.1	2.2	.05	27.07	11.40	30.14	1163	1.56	27.6		
1504	.1	2.3	.05	27.09	11.39	30.18	1155	1.34	26.9	↓	↓

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Sara Kinsel /ARCADIS	Sara Kinsel	1510	1900

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
145	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-128					–	–	See attached Table		100
MW-128	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-128	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-128	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-128	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-128	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-128	2	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-128	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-128	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-128	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Hach: Fe = 1.08 mg/L ; Cl = 2.4 mg/L KB 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-128	SAMPLE ID:	MW-128	DATE: 3-18-09

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Sara Kinsella /ARCADIS	Sara Kinsella	1510	1900

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45µm
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-128	1	PE	250 mL	None	--	--	SM 3500	APP	100
MW-128	1	PE	250mL	NaOH & Ascorbic	--	--	335.4	APP	100
MW-128	1	PE	250mL	HNO3	--	--	7470A	APP	100
MW-128	1	PE	1L	None	--	--	SM 2320B, 300, 353.2	APP	100
MW-128	1	PE	500mL	NaOH+Zn Acetate	--	--	SM 4500	APP	100
MW-128	1	PE	500mL	H2SO4	--	--	350.1	APP	100
MW-128	1	PE	500mL	None	--	--	SM 5540C	APP	100
MW-128	2	AG	1L	HCl	--	--	1664A	APP	100
MW-128	2	AG	1L	None	--	--	8081A	APP	100
MW-128	2	AG	1L	None	--	--	8151A	APP	100
MW-128	2	AG	1L	None	--	--	8270C	APP	100
MW-128	2	AG	1L	None	--	--	8270C	APP	100
MW-128	2	AG	1L	None	--	--	8082	APP	100
MW-128	1	PE	1L	None	--	--	SM 5210B, SM 4500, 120.1	APP	100
MW-128	1	PE	1L	None	--	--	SM 2540C, SM 2540D	APP	100
MW-128	1	AG	250mL	H2SO4	--	--	SM 5310C	RFPP	100
MW-128	2	AG	1L	None	--	--	8141A	APP	100
MW-128	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-128	1	PE	250mL	HNO3	--	--	6020	APP	100
MW-128	1	PE	250mL	None	--	--	200.7	APP	100
MW-128	3	CG	40mL	HCl	--	--	524.2	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-129	SAMPLE ID:	MW-129	DATE: 3/26/09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	103 feet to 113 feet	STATIC DEPTH TO WATER (feet):	22.00	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (113 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 113 feet) + 0.25 gallons = 0.41 gallons 1.27

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	108	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	108	PURGING INITIATED AT:	1147	PURGING ENDED AT:	1205	TOTAL VOLUME PURGED (gallons):	1.27

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or ~~µmhos~~ mS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1153		0.43	0.07	23.09	8.59	26.05	893	0.49	24.0	no	slight	-152.8
1156	0.21	0.64	0.07	23.09	7.99	26.15	972	0.45	16.1	↓	↓	-112.7
1159	0.21	0.85	0.07	23.11	7.56	26.16	1020	0.42	10.05			-91.1
1202	0.21	1.06	0.07	23.11	7.37	26.14	1036	0.40	6.00			-89.8
1205	0.21	1.27	0.07	23.11	7.30	26.23	1062	0.50	4.74			-82.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor J Cook /ARCADIS	Matthew Sedor	1210	1220

PUMP OR TUBING DEPTH IN WELL (feet):	108	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
				Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y/N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-129	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
	2	CG	40ml	HCl	—	—	8260B	APP	100
	3	CG	40ml	HCl	—	—	8260B	APP	100
	3	CG	40ml	none	—	—	8260B	APP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC facility		SITE LOCATION: Tallevast FL	
WELL NO: MW-130	SAMPLE ID: MW-130		DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 21.27	PURGE PUMP TYPE OR BAILER: PE

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 120 feet) + .25 gallons = .42 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
105	105	8:02	824	1.54

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
816	.98	.98	0.07	21.82	7.19	24.03	568	.48	13.9	clear/	none
818	.14	1.12025	.07	21.81	7.15	24.13	577	.54	9.74	debris	
820	.14	1.26	.07	21.82	7.17	24.23	587	.52	6.14		
822	.14	1.40	.07	21.83	7.18	24.28	590	.32	7.11		
824	.14	1.54	.07	21.83	7.20	24.31	593	.29	5.04		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEC / Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 830	SAMPLING ENDED AT: 850
PUMP OR TUBING DEPTH IN WELL (feet): 105	TUBING MATERIAL CODE: PE	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE: 45 µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40 mL	HCl			Savannah		
	3	GG	40				Denver		
	2	CG	40	HCl			Stowes		
	4	CG	40	HCl			Freeport		
	2	PE	250	nitric acid			Metals		
	1	PE	125				Bromide		

REMARKS: debris clogged

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-131	SAMPLE ID:	MW-131	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	100 feet to 110 feet	19.94	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (110 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = .40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
105	105	1505	1525	1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1519	.84	.84	.06	20.36	7.34	24.59	577	.32	2.67	clear	none	-263.9
1521	.12	.96	.06	20.36	7.31	24.64	601	.31	3.49			-271.1
1523	.12	1.08	.06	20.36	7.28	24.66	615	.28	3.17			-274.6
1525	.12	1.2	.06	20.36	7.26	24.67	620	.27	4.32	↓	↓	-280.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1526	1535

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
105	PE	N Filtration Equipment Type: N\A	N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-131	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-132	SAMPLE ID:	MW-132	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	101 feet to 111 feet	20.40	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (111 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 115 feet) + 0.25 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
106	106	0912	0932	1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0917	0.4	0.4	0.08	20.66	7.81	24.7	553	0.63	3.92	clear	slight	-299
0922	0.4	0.8	↓	20.66	7.55	24.8	573	0.35	2.90	↓	↓	-255
0927	0.4	1.2		20.66	7.44	24.8	584	0.36	2.75			-257
0932	0.4	1.6		20.66	7.40	24.9	590	0.30	2.53			-260

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
(3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Leverette /ARCADIS		0933	0936

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
106	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-132	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-133	SAMPLE ID: MW-133	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 19.90	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (110 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~95~~ 105	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~95~~ 105	PURGING INITIATED AT: 1415	PURGING ENDED AT: 1438	TOTAL VOLUME PURGED (gallons): 1.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1427	0.50	0.50	0.06	20.85	7.27	27.44	670	0.16	3.28	Clear	None	48
1430	0.18	~~0.68~~ 1.68	0.06	20.85	7.28	27.19	669	0.13	2.65	↓	↓	55
1433	0.18	~~0.86~~ 1.86	0.06	20.84	7.28	27.09	666	0.13	3.44			62
1436	0.18	1.04	0.06	20.84	7.28	27.00	665	0.22	3.67			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jon Hensteller /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1438	SAMPLING ENDED AT: 1445
PUMP OR TUBING DEPTH IN WELL (feet): ~~95~~ 105	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: NA um
FIELD DECONTAMINATION: PUMP(Y/N) Y NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-133	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

8260 B +SIM II
SVS
total Fe & Mn
dissolved Fe & Mn

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-134	SAMPLE ID: MW-134	DATE: 3/24/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 103 feet to 113 feet	STATIC DEPTH TO WATER (feet): 21.54	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (113 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 115' feet) + 0.25 gallons = .41 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N 108'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 108'	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0936	TOTAL VOLUME PURGED (gallons): .90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle ~~units~~) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0927	.45	.45	.075	22.29	7.49	26.33	581	0.30	0.64	clear	slight	-114.4
0930	.15	.60		22.29	7.35	26.51	635	0.20	0.46			-139.8
0933	.15	.75		22.28	7.35	26.63	644	0.17	0.76			-142.5
0936	.15	.90		22.28	7.34	26.70	649	0.14	0.71			-160.4
			↓							↓	↓	

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Steve Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0937	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 108'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE(Y/N): ~~(N)~~ yes	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
~~MW-134~~	~~1~~	~~PE~~	~~1 L~~	~~None~~	~~–~~	~~–~~	~~SM 2540C~~	~~APP~~	~~100~~
MW-134	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-134	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-134	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-134	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-134 Δ	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-134 Δ	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-134 Δ	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-134	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

J.J.

REMARKS:
Dup-03/4/CG/40mL/HCL/–/–/8260B/CSIM/RFPP/100

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

~~Dup-03~~

Dup-03/1/125 mL/ None/ – – / Bromide 300/ APP/ 100

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Talleast	SITE LOCATION:	Sarasota Fl
WELL NO:	MW-135	SAMPLE ID: MW-135	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 94 feet to 104 feet	STATIC DEPTH TO WATER (feet): 20.53	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (.0014 gallons/foot X 104 feet) + .25 gallons = .40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 100	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 100	PURGING INITIATED AT: 1527	PURGING ENDED AT: 1543	TOTAL VOLUME PURGED (gallons): 1.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1534	.56	.56	.08	20.91	7.19	25.37	829	.42	20.3	clear	none
1537	.24	.80	.08	20.86	7.20	25.43	833	.39	18.4	↓	-174
1540	.24	.94	.08	20.83	7.20	25.54	837	.40	15.5		-164
1543	.24	1.18	.08	20.81	7.20	25.62	840	.59	13.6	↓	↓ -190

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW/Arcadis	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1544	SAMPLING ENDED AT: 1555

PUMP OR TUBING DEPTH IN WELL (feet): 100	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: 45 µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-135	4	PE	125	Nitric			metals		100
↓	3	CG	40	HCl			8260		↓

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-136	SAMPLE ID:	MW-136	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	98.5 feet to 108.5 feet	1851	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (108.5 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = .40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
1035	103.5	1525	1545	1.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1539	.98	.98	.07	19.8	7.44	24.85	788	1.62	.64	clear	none	-137.0
1541	.14	1.12	.07	19.8	7.43	24.88	787	.74	.39			-143.1
1543	.12	1.24	.06	19.78	7.44	25.02	787	.64	.26			-148.7
1545	.12	1.36	.06	19.75	7.43	25.01	787	.60	.27			-156.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1550	1600

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
103.5	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-136	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Sunny Windy high grass area

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-137	SAMPLE ID: MW-137	DATE: 3.26.09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 17 feet to 22 feet	STATIC DEPTH TO WATER (feet): 5.92	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 35 feet) + 0.25 gallons = .30 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1622	PURGING ENDED AT: 1637	TOTAL VOLUME PURGED (gallons): 1.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1630	.56	.56	.07	6.81	7.03	24.04	729	7.28	3.81	clear	none	-41.7
1633	.21	.78	.07	6.83	7.01	24.01	721	.82	4.46			-46.0
1635	.14	.92	.07	6.84	6.95	24.04	720	.74	3.99			-51.80
1637	.14	1.06	.07	6.85	6.95	24.10	718	.67	3.91	↓	↓	-53.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK / CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1640	SAMPLING ENDED AT: 1650
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-137	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-137	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-137	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Sunny Windy high grass/weeds.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); Q = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-138	SAMPLE ID: MW-138	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 38 feet to 43 feet	STATIC DEPTH TO WATER (feet): 11.75	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40.5	PURGING INITIATED AT: 1537	PURGING ENDED AT: 1604	TOTAL VOLUME PURGED (gallons): 2.17

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1553	1.4	1.4	.07	14.74	7.23	24.81	1635	.43	1.44	clear	none	-110.3
1558	.35	1.75	.07	14.61	7.35	24.65	1099	.75	1.28	"	"	-112.2
1600	.14	1.89	.07	14.56	7.33	24.80	1102	.19	1.80	"	"	-120.8
1602	.14	2.03	.07	14.50	7.33	24.90	1105	.17	1.49	"	"	-120.6
1604	.14	2.17	.07	14.50	7.33	24.89	1107	.15	1.47	"	"	-121.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kuiper	SAMPLING INITIATED AT: 1605	SAMPLING ENDED AT: 1615
PUMP OR TUBING DEPTH IN WELL (feet): 40.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
		Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-138	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Sunny, Windy high grass/weeds

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-139	SAMPLE ID: MW-139	DATE: 3-27-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 147 feet to 157 feet	STATIC DEPTH TO WATER (feet): 17.0	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = .47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 152	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 152	PURGING INITIATED AT: 840	PURGING ENDED AT: 914	TOTAL VOLUME PURGED (gallons): 1.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
908	1.08	1.08	.06	18.16	7.64	22.75	612	.45	.59	clear	none
910	.12	1.2	.06	18.16	7.58	22.80	612	.42	.18	↓	↓
912	.12	1.32	.06	18.16	7.56	22.84	613	.42	.38		
914	.12	1.44	.06	18.16	7.60	22.89	614	.41	.40		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 915	SAMPLING ENDED AT: 925

PUMP OR TUBING DEPTH IN WELL (feet): 152	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-139	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-140	SAMPLE ID:	MW-140	DATE: 3.27.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.5	0.1875	280 feet to 300 feet	14.86	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 300 feet) + 0.25 gallons = .67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
290	290	815	857	2.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
849	2.04	2.04	.06	17.79	8.01	22.31	741	.46	5.70	clear	Slight
851	.12	2.16	.06	17.83	8.14	22.46	744	.44	5.67	↓	↓
853	.12	2.28	.06	17.88	8.23	22.56	747	.37	5.46		
855	.12	2.40	.06	17.87	8.28	22.68	751	.32	5.46		
857	.12	2.52	.06	17.91	8.26	22.70	755	.31	5.63		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS	Sina Kemek	900	910

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
290	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-140	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: 822 began purge water became dark black, cloudy w/ black debris. Purge water "flushed" at debris. Purge water clear @827

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-141	SAMPLE ID:	MW-141	DATE: 3.27.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	15 feet to 20 feet	5.91	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 35 feet) + 0.25 gallons = .29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
18	18	1100	1124	1.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1118	1.26	1.26	.07	6.15	6.58	23.37	428	.75	5.24	clear	none
1120	.14	1.40	.07	6.15	6.54	23.44	428	.63	5.54	↓	↓
1122	.14	1.54	.07	6.15	6.57	23.47	428	.62	5.01	↓	↓
1124	.14	1.68	.07	6.15	6.57	23.49	428	.59	4.38	↓	↓

DRP: -76.4, -76.4, -77.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS	Sara Kline	1125	1135

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
18	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-141	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-141	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-141	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Boat sanding nearby, bobcat digging around area. Spider nest on replaced sparg plug

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-142	SAMPLE ID:	MW-142	DATE: 3.27.09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	26 feet to 31 feet	STATIC DEPTH TO WATER (feet):	5.95	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 35 feet) + 0.25 gallons = .29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	28.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	28.5	PURGING INITIATED AT:	943	PURGING ENDED AT:	1015	TOTAL VOLUME PURGED (gallons):	1.86

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
9:57	.78	.78	.06	6.81	7.29	23.12	619	.31	5.35	Clear	none	
10:00	.78	.96	.06	6.82	7.35	23.11	617	.46	4.41			
10:03	.18	1.14	.06	6.83	7.32	22.88	612	.52	4.28			
10:06	.18	1.32	.06	6.84	7.32	23.25	614	.36	3.14			
10:09	.18	1.50	.06	6.84	7.28	23.75	617	.31	2.73			-127.6
10:12	.18	1.68	.06	6.85	7.29	23.75	619	.33	0.71			-128.0
10:15	.18	1.86	.06	6.85	7.23	23.87	620	.36	2.30			-119.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SEK/CEW /ARCADIS	SAMPLER(S) SIGNATURE(S):	Charles Wade	SAMPLING INITIATED AT:	10:20	SAMPLING ENDED AT:	10:30
PUMP OR TUBING DEPTH IN WELL (feet):	28.5	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N):	N	FILTER SIZE:	N\A um
				Filtration Equipment Type:	N\A		

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-142	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-143	SAMPLE ID:	MW-143	DATE: 8/30/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	96 feet to 106 feet	18.06	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = 1.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
101	101	823	902	1.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
8:47	1.2	1.2	.05	18.19	7.36	22.64	654	.77	1.93	none	none	150.00
8:50	.15	1.35	.05	18.17	7.38	22.66	657	.76	1.93			-149.3
8:53	.15	1.50	.05	18.17	7.38	22.73	660	.41	1.94			-146.0
8:56	.15	1.65	.05	18.17	7.36	22.83	661	.30	1.20			-146.6
8:59	.15	1.80	.05	18.17	7.39	22.71	661	.26	1.27			-152.4
9:02	.15	1.95	.05	18.17	7.40	22.73	662	.24	1.88	↓	↓	-147.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		9:10	9:15

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
101	PE	N Filtration Equipment Type: N/A	N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N Y DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-143	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-144	SAMPLE ID:	MW-144	DATE: 3.27.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	140 feet to 150 feet	17.09	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = .46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
145	145	1156	1239	2.58

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1233	2.22	2.22	.06	20.91	7.58	26.88	775	.36	14.1	clear	none	
1235	.12	2.34	.06	20.95	7.60	27.04	777	.37	13.2	↓	↓	-220.4
1237	.12	2.46	.06	21.01	7.60	27.04	777	.34	12.1			-226.9
1239	.12	2.58	.06	21.05	7.60	27.01	777	.34	9.98			-233.2

V APACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1240	1250

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
145	PE	Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-144	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: windy, boat sampling

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-145	SAMPLE ID:	MW-145	DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.5	0.1875	280 feet to 300 feet	14.13	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 310 feet) + 0.25 gallons = .68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
290	290	810	859	2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
848	1.9	1.9	.05	17.55	7.21	22.0	683	1.13	1.04	none	Slight	-264.3
850	.1	2.0	.05	17.63	7.35	22.28	690	1.06	.96			-266.9
852	.1	2.1	.05	17.60	7.46	22.36	694	.94	1.08			-276.8
854	.1	2.2	.05	17.59	7.51	22.37	697	.88	.48			-277.9
856	.1	2.3	.05	17.59	7.55	22.33	698	.83	.38			-280.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		900	910

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
290	PE	N	N/A um
		Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-145	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-146	SAMPLE ID:	MW-146	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	19.5 feet to 24.5 feet	5.98	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
21	21	938	958	.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
951	.65	.65	.05	6.33	6.32	23.10	473	.33	19.3	clear	none	-14.0
954	.1	.75	.05	6.33	6.31	23.05	474	.30	17.1	↓	↓	-16.9
956	.1	.85	.05	6.33	6.31	23.00	473	.30	15.9			-19.6
958	.1	.95	.05	6.33	6.31	23.06	475	.28	14.7	↓	↓	

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS	Dina Klimek	1000	1010

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
21	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-146	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-146	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-146	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:
windy, next to road.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
FIL NO: MW-147	SAMPLE ID: MW-147	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 29.5 feet to 34.5 feet	STATIC DEPTH TO WATER (feet): 5.95	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC OEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 42 feet) + 0.25 gallons = .30 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1323	TOTAL VOLUME PURGED (gallons): 1.38

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1317	.02	1.02	.06	6.48	7.20	25.58	646	.35	1.39	clear	none -129.3
1319	.12	1.14	.06	6.48	7.19	25.61	645	.24	1.42	"	" -138.0
1321	.12	1.26	.06	6.48	7.20	25.63	645	.23	.99	"	" -143.8
1323	.12	1.38	.06	6.48	7.20	25.64	644	.20	.33	"	" -157.7

ORP

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK / CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1325	SAMPLING ENDED AT: 1335

PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-147	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-148	SAMPLE ID:	MW-148	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	95.5 feet to 105.5 feet	STATIC DEPTH TO WATER (feet):	18.46	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 106 feet) + 0.25 gallons = .40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	100	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	100	PURGING INITIATED AT:	941	PURGING ENDED AT:	1007	TOTAL VOLUME PURGED (gallons):	1.98

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
9:58	1.36	1.36	.08	18.65	7.35	24.08	688	.58	1.28	clear	none	-216.3
10:01	.24	1.56	.08	18.68	7.34	24.19	689	.68	.30	↓	↓	-229.0
10:04	.24	1.74	.08	18.68	7.34	24.20	698	.53	.86	↓	↓	-247.1
10:07	.24	1.98	.08	18.68	7.34	24.17	697	.41	.40	↓	↓	-257.9
~~10:10~~	~~.24~~	~~2.22~~										

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	Sara Kilmer	SAMPLING INITIATED AT:	10:13	SAMPLING ENDED AT:	10:20

PUMP OR TUBING DEPTH IN WELL (feet):	100	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
				Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-148	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-148	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-148	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: windy - by the roadway

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-149	SAMPLE ID: MW-149	DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 17.21	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 155 feet) + 0.25 gallons = 4.7 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 1050	PURGING ENDED AT: 1026	TOTAL VOLUME PURGED (gallons): 1.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1036	.6	.6	.06	21.97	7.26	24.45	608	.12	.82	clear	none	-85.9
1038	.12	.72	.06	22.78	7.30	24.35	608	.14	1.49			-85.6
1041	.18	.90	.06	23.34	7.31	24.30	607	.13	1.52			-88.9
1044	.18	1.08	.06	23.72	7.25	24.26	607	.15	1.87			-93.5
1047	.18	1.26	.06	24.08	7.22	24.17	606	.13	2.12			-89.9
1050	.18	1.44	.06	24.34	7.30	24.14	605	.15	1.80			-99.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1051	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-149	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-150	SAMPLE ID:	MW-150	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.5	0.1875	285 feet to 305 feet	15.70	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 315 feet) + 0.25 gallons = .69 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
295	295	1256	1348	2.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1338	1.68	1.68	.04	21.43	7.77	28.11	716	1.78	.10	Clear	Slight - 155.9
1340	.08	1.76	.04	21.65	7.76	28.18	716	.62	.10		- 157.4
1342	.08	1.84	.04	21.81	7.75	28.18	716	.38	.01		
1344	.08	1.92	.04	22.03	7.75	28.22	717	.30	.09		- 158.3
1346	.08	2.00	.04	22.20	7.75	28.22	718	.26	.15		- 156.9
1348	.08	2.08	.04	22.36	7.75	28.23	718	.23	.15		- 158.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS	Sara Klnel	1350	1400

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
295	PE	Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-150	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
NO: MW-151	SAMPLE ID: MW-151	DATE: 3-26-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 17 feet to 22 feet	STATIC DEPTH TO WATER (feet): 5.99	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
19.5	19.5	1101	1117	1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1105	0.3	0.3	0.075	5.93	6.66	24.3	1120	1.01	69.3	Dk brn	NONE	-38
1109	0.3	0.6	↓	5.93	6.37	24.4	1136	1.11	41.2	↓	↓	-250
1113	0.3	0.9		5.93	6.35	24.4	1142	1.08	44.0			-259
1117	0.3	1.2		5.93	6.34	24.5	1196	1.01	43.7			-235

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R.Kontos/S.Lemarche /ARCADIS		1118	1128

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
19.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-151	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-151	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-151	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

* Small Brown Debris in H2O

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
W[illegible] NO: MW-152	SAMPLE ID: MW-152	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 37.5 feet to 42.5 feet	STATIC DEPTH TO WATER (feet): 7.06	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = 0.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55 feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40	PURGING INITIATED AT: 0907	PURGING ENDED AT: 0927	TOTAL VOLUME PURGED (gallons): 1.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0912	0.32	0.32	0.06	8.89	7.63	24.0	557	4.01	2.42	Clear	Clear	-257
0917	0.32	0.64	↓	9.15	7.86	23.9	564	3.99	2.22	↓	↓	-256
0922	0.32	0.96		9.20	7.89	23.9	564	4.00	1.91			-260
0927	0.32	1.28		9.23	7.89	23.9	563	4.01	1.83			-266

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos S. Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0928	SAMPLING ENDED AT: 0936
PUMP OR TUBING DEPTH IN WELL (feet): 40	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-152	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-152	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-152	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-153	SAMPLE ID: MW-153	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 97 feet to 107 feet	STATIC DEPTH TO WATER (feet): 16.05	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 120 feet) + 0.25 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 102	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 102	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1045	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1030	0.4	0.4	0.08	16.25	7.50	26.1	602	0.45	85.1	cloudy	slight	-349
1035	0.4	0.8	↓	16.26	7.48	26.1	601	0.33	13.1	clear	↓	-351
1040	0.4	1.2		16.26	7.44	25.9	599	0.40	12.2	↓		-352
1045	0.4	1.6	↓	16.26	7.43	25.9	597	0.37	11.9	↓	↓	-351

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Leverett /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1046	SAMPLING ENDED AT: 1050
PUMP OR TUBING DEPTH IN WELL (feet): 102	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-153	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-154	SAMPLE ID: MW-154	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 144.5 feet to 154.5 feet	STATIC DEPTH TO WATER (feet): 15.02	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet -) feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 170 feet) + 0.25 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 149.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 149.5	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1009	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0951	0.5	0.5	0.08	15.98	7.49	24.2	592	0.55	25.2	Cloudy	Slight	-342
0957	0.5	1.0	↓	16.06	7.54	24.4	604	0.54	19.6	Clear	↓	-344
1003	0.5	1.5		16.06	7.52	24.6	600	0.56	18.2	↓		-353
1009	0.5	2.0		16.06	7.51	24.6	605	0.58	13.1			-255

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kerhoas, S. Lemerotte /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1010	SAMPLING ENDED AT: 1014
PUMP OR TUBING DEPTH IN WELL (feet): 149.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-154	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-155	SAMPLE ID:	MW-155	DATE: 3/31/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	284 feet to 304 feet	12.08	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 305 feet) + 0.25 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
294	294	14:25	15:16	2.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
14:42	0.68	0.68	0.04	15.50	7.47	26.81	860	0.23	5.35	Clear	No	-169.6
14:59	0.68	1.36	0.04	15.98	7.48	27.01	866	0.16	2.72	Clear	No	-169.8
15:10	0.44	1.8	0.04	16.28	7.46	27.00	866	0.16	1.60	Clear	No	-165.4
15:13	0.12	1.92	0.04	16.39	7.46	26.95	864	0.16	2.07	Clear	No	-86.1
15:16	0.12	2.04	0.04	16.50	7.48	26.93	863	0.16	1.73	Clear	No	-167.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	15:17	15:34

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
294	PE	N Filtration Equipment Type: N/A	N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-155	AT + 8	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

Dup-9 collected

REMARKS: Pumping at lowest possible purge rate; well continues to drawdown

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

VOA
& Mn
Hach

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-156	SAMPLE ID: MW-156		DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 5.04	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17'	PURGING INITIATED AT: 1553	PURGING ENDED AT: 1617	TOTAL VOLUME PURGED (gallons): 1.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1602	1.05	1.05	0.03	6.35	6.28	25.67	447	0.92	9.44	very	none noted	-1.9
1605	0.09	1.14		6.24	6.26	26.01	450	0.63	6.87	slight		1.3
1608	0.09	1.23		6.15	6.20	26.82	453	0.37	6.64	yellowish		0.5
						4C 26.84						
1611	0.09	1.32		6.03	6.19	27.03	460	0.32	5.21			1.1
1614	0.09	1.41		5.97	6.17	27.06	461	0.23	5.04			-3.4
1617	0.09	1.50		5.97	6.17	27.07	462	0.20	4.86			-3.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1618	SAMPLING ENDED AT: 1635 → 1635 4C
PUMP OR TUBING DEPTH IN WELL (feet): 17'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um dissolved metals only
FIELD DECONTAMINATION: PUMP(Y/N) NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-156	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-156	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-156	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; Q = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-157	SAMPLE ID:	MW-157	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	33 feet to 38 feet	12.60	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 3 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = ~~12.36~~ 0.32 AC gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
~~38~~ AC 35	~~38~~ AC 35	1515	1555	1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) ~~umhos/cm~~ or uS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
			.02	16.50	7.84	36.60						
1540	1.0	1.0	.02	17.90	7.29	26.22	885	0.24	2.85	Clear	None	85
1543	0.06	1.06	.02	18.80	7.26	26.00	858	0.22	2.81	Clear	None	79
1546	0.06	1.12	.02	19.20	7.26	26.26	864	0.21	1.91	clear	None	78

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Jon Kerstetter /ARCADIS		1555	1618

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
38 35	PE	Filtration Equipment Type: Disposable Filter	dissolved metals only

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-157	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-157	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-157	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Slowed pump. cannot stop drawdown.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-158	SAMPLE ID: MW-158	DATE: 3.23.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): ~~5.20~~ 17.20 AC	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = 1.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~105'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105'	PURGING INITIATED AT: 1555	PURGING ENDED AT: 1610	TOTAL VOLUME PURGED (gallons): 0.85

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1601	.40	.40	.075	17.52	7.52	24.96	649	0.22	4.95	clear	slight	-94.7
1604	.15	.55		17.52	7.51	24.70	645	0.19	2.76			
1607	.15	.70		17.52	7.51	24.65	644	0.15	3.33			
1610	.15	.85		17.52	7.50	24.59	644	0.14	3.05			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Steve LeVeretle /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1611	SAMPLING ENDED AT: 1642
PUMP OR TUBING DEPTH IN WELL (feet): 105'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter only filtered for dissolved Fe Mn	
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-158	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-158	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-158	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-158	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-158	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-158	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: * Needs 1 bolt For Vault Lid * Hach: Fe = 0.49 mg/L KD 3/24/09

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-159	SAMPLE ID: MW-159	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 140 feet to 150 feet	STATIC DEPTH TO WATER (feet): 17.20	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 145	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 145	PURGING INITIATED AT: 1405	PURGING ENDED AT: 1429	TOTAL VOLUME PURGED (gallons): 1.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C) JK	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1420	0.68	0.68	0.04	19.90	7.52	25.44	704	0.23	1.77	Clear	None	-78
1423	0.12	0.80	0.04	20.21	7.55	25.36	707	0.24	1.44	↓	↓	-106
1426	0.12	0.92	0.04	20.50	7.55	25.48	716	0.21	0.56	↓	↓	-93

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jon Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1450
PUMP OR TUBING DEPTH IN WELL (feet): 145	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-159	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Needs new tubing

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-160	SAMPLE ID: MW-160	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 280 feet to 300 feet	STATIC DEPTH TO WATER (feet): 15.93	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 300 feet) + 0.25 gallons = 0.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~300~~ 288	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~300~~ 288	PURGING INITIATED AT: 1722	PURGING ENDED AT: 1757	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1748	1.30	1.30	0.05	17.42	7.63	24.20	767	0.48	6.55	Clear	None	-208
1751	0.15	1.45	0.05	17.55	7.69	24.74	776	0.38	5.57	Clear	None	-212
1754	0.15	1.60	0.05	17.59	7.70	24.90	786	0.32	4.87	Clear	None	-215
1757	0.15	1.75	0.05	17.65	7.70	24.77	779	0.29	4.18	Clear	None	-220

APACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
J INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1757	SAMPLING ENDED AT: 1805

PUMP OR TUBING DEPTH IN WELL (feet): 288	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ NA TUBING(Y/N replaced) Y ~~N~~ DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-160	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-161	SAMPLE ID: MW-161	DATE: 3.30.09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 381 feet to 401 feet	STATIC DEPTH TO WATER (feet): 16.58	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 400 feet) + 0.25 gallons = 0.81 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 391	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 391	PURGING INITIATED AT: 1418	PURGING ENDED AT: 1449	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
~~1433~~				~~16.68~~								
	1.42	1.42										
1443	~~0.90~~	~~0.90~~	0.03	16.75	8.19	27.12	1241	0.22	10.49	clear	none	-224.9
1446	0.09	1.51	↓	16.75	8.25	27.14	1241	0.20	10.33	colorless	none	-234.0
1449	0.09	1.60		16.75	8.19	27.18	1243	0.19	9.33	↓	↓	-237.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1450	SAMPLING ENDED AT: 1500

PUMP OR TUBING DEPTH IN WELL (feet): 391	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-161	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-162	SAMPLE ID:	MW-162	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	11 feet to 16 feet	6.50	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 23.5 feet) + 0.25 gallons = .28 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
13.5	13.5	10:37	11:03	2.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:49	.96	.96	.08	17.09	7.07	22.44	543	.43	2.83	none	none	-67.7
10:52	.18	1.14	.08	17.06	6.91	22.38	543	.34	1.98			-59.7
10:55	.18	1.32	.08	17.07	6.79	22.38	548	.30	.84			-51.0
10:58	.18	1.50	.08	17.08	6.68	22.38	553	.48	.36			-44.1
11:01	.18	1.68	.08	17.01	6.63	22.54	560	.43	.07			-43.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Charles Woods /ARCADIS	Charles Woods	11:04	11:10

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
13.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-162	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-162	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-162	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Cloudy Looks like Rain :(

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-163	SAMPLE ID:	MW-163	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	30 feet to 35 feet	11.90	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
33	33	8:32	8:59	1.56

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
8:52	1.20	1.20	.06	12.69	7.08	22.52	624	.34	1.07	none	none	-81.7
8:55	.18	1.38	.06	12.72	7.08	22.56	624	.43	.39	1	1	-91.8
8:58	.18	1.56	.06	12.74	7.09	22.57	625	.60	1.21	1	1	-94.7
9:01	.18		.06									

GRA

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Charles Woods /ARCADIS	Charles Woods	8:59	9:05

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
33	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-163	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS: Cloudy/overcast

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-164	SAMPLE ID: MW-164	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 92 feet to 102 feet	STATIC DEPTH TO WATER (feet): 19.89	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 102 feet) + 0.25 gallons = .39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 97	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 97	PURGING INITIATED AT: 8:32	PURGING ENDED AT: 858	TOTAL VOLUME PURGED (gallons): 1.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
840	.40	.40	.05	21.23	7.13	22.49	637	.64	.34	clear	none	-168.7
843	.15	.55	.05	21.31	7.21	22.51	650	.51	.14			-185.9
846	.15	.70	.05	21.31	7.26	22.58	665	.42	.07			-193.0
8489	.12	.82	.04	21.26	7.28	2058	668	.46	.06			-185.5
852	.12	.94	.04	21.23	7.29	22.59	671	.54	.10			-180.6
855	.12	1.06	.04	21.23	7.30	22.60	676	.61	.13			-174.8
858	.12	1.18	.04	21.23	7.29	22.61	677	.58	.08	↓	↓	-183.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: EK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 900	SAMPLING ENDED AT: 910

PUMP OR TUBING DEPTH IN WELL (feet): 97	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-164	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-165	SAMPLE ID: MW-165	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 142 feet to 152 feet	STATIC DEPTH TO WATER (feet): 17.71	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = .47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 147	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 147	PURGING INITIATED AT: 1010	PURGING ENDED AT: 1042	TOTAL VOLUME PURGED (gallons): 1.51

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1031	1.05	1.05	.05	23.05	7.54	23.92	718	.30	19.9	clear	none	204.6
1033	.1	1.15	.05	23.63	7.54	24.08	720	.23	18.4	↓	↓	207
1036	.12	1.27	.04	24.50	7.54	24.45	726	.25	16.7			221
1039	.12	1.39	.04	24.77	7.53	24.52	727	.23	10.98			227
1042	.12	1.51	.04	25.13	7.54	24.56	729	.24	14.9			220

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Shea Kilmer	SAMPLING INITIATED AT: 1043	SAMPLING ENDED AT: 1050
PUMP OR TUBING DEPTH IN WELL (feet): 147	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-165	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-166	SAMPLE ID:	MW-166	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches):	2.5	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH: 281 feet to 301 feet	STATIC DEPTH TO WATER (feet): 15.07	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - ~~315~~ feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 315 feet) + 0.25 gallons = .69 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 291	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 291	PURGING INITIATED AT: 9:40	PURGING ENDED AT: 1022	TOTAL VOLUME PURGED (gallons): 2.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:10	1.80	1.80	.06	16.15	8.77	23.69	613	.20	31.9	clear	none	-219.7
10:13	.18	1.98	.06	16.16	8.56	23.84	625	.20	31.3	↓	↓	-228.5
10:16	.18	2.16	.06	16.20	8.42	23.87	633	.19	32.1			-230.2
10:19	.18	2.34	.06	16.23	8.34	23.78	638	.19	30.2			-233.2
10:22	.18	2.52	.06	16.20	8.30	23.76	640	.19	28.0			-241.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1023	1030

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
291	PE	N Filtration Equipment Type: N\A	N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-166	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Partly sunny

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24 1320

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-167	SAMPLE ID: MW-167	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 5.93	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5	PURGING INITIATED AT: 1332	PURGING ENDED AT: 1343	TOTAL VOLUME PURGED (gallons): 0.99

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1337	0.45	0.45	0.09	6.91	5.17	28.57	325	0.54	1.77	no	slight	43.8
1340	0.27	0.72	0.09	7.03	5.14	28.57	325	0.37	3.31	↓	↓	38.1
1343	0.27	0.99	0.09	7.12	5.13	28.63	326	0.32	1.79			34.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
S INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew DeSedor / C Holton	SAMPLING INITIATED AT: 1349	SAMPLING ENDED AT: 1354
PUMP OR TUBING DEPTH IN WELL (feet): 22.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-167	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-167	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-167	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: recalibrated turbidity meter prior to purging; calibration checked on YSI. OK (MDS) 0.98, 9.98

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1245

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-168	SAMPLE ID: MW-168	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 42 feet to 47 feet	STATIC DEPTH TO WATER (feet): 8.91	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 57 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	PURGING INITIATED AT: 1256	PURGING ENDED AT: 1306	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1300	0.4	0.4	0.1	9.37	6.84	28.81	580	0.50	4.32	none	moderate	-120.0
1303	0.3	0.7	0.1	9.38	6.80	28.74	579	0.46	0.75	↓	↓	-109.0
1306	0.3	1.0	0.1	9.40	6.78	28.67	577	0.28	0.00	↓	↓	-102.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M Sedor / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Holton	SAMPLING INITIATED AT: 1312	SAMPLING ENDED AT: 1318
PUMP OR TUBING DEPTH IN WELL (feet): 44.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-168	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-168	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-168	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

1358

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-169	SAMPLE ID: MW-169	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 106 feet to 116 feet	STATIC DEPTH TO WATER (feet): 16.10	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 126 feet) + 0.25 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 112	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 112	PURGING INITIATED AT: 1407	PURGING ENDED AT: 1424	TOTAL VOLUME PURGED (gallons): 1.43

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1412	0.5	0.5	0.1	19.60	11.53	28.63	1530	0.30	10.07	no	ND	-220.9
1415	0.3	0.8	0.1	21.19	11.52	28.63	1504	0.22	6.55	↓	↓	-237.7
1418	0.21	1.01	0.07	22.85	11.53	28.90	1512	0.20	2.12			-248.6
1421	0.21	1.22	0.07	24.07	11.53	29.00	1519	0.18	0.96			-256.2
1424	0.21	1.43	0.07	24.92	11.53	28.97	1526	0.19	0.62			-263.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Holton	SAMPLING INITIATED AT: 1434	SAMPLING ENDED AT: 1437
PUMP OR TUBING DEPTH IN WELL (feet): 112	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y/N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-169	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1015

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-170	SAMPLE ID: MW-170	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 280 feet to 300 feet	STATIC DEPTH TO WATER (feet): 17.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 350 feet) + 0.25 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 290	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 290	PURGING INITIATED AT: 1030	PURGING ENDED AT: 1123	TOTAL VOLUME PURGED (gallons): 2.45

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1047	0.77	0.77	0.045	20.50	7.88	28.84	1067	0.18	28.1	slight	strong	-174
1053	0.28	1.05	0.045	21.36	7.84	28.77	1072	0.19	11.2		moderate	-184.5
1059	0.28	1.33	0.045	21.84	7.83	28.91	1076	0.20	6.40		slight	-179.1
1105	0.28	1.61	0.045	22.28	7.84	29.30	1085	0.22	6.11			-186.0
1111	0.28	1.89	0.045	22.65	7.83	29.47	1083	0.25	5.78			-177.6
1117	0.28	2.17	0.045	22.96	7.83	29.41	1087	0.21	5.22			-179.5
1123	0.28	2.45	0.045	23.22	7.82	29.30	1086	0.16	5.94			-178.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Seder / C. Holton	SAMPLING INITIATED AT: 1126	SAMPLING ENDED AT: 1130
PUMP OR TUBING DEPTH IN WELL (feet): 290	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-170	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-171	SAMPLE ID:	MW-171	DATE: 3/26/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	35 feet to 40 feet	9.22	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
37.5	37.5	957	1019	1.76

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1003	0.48	0.48	0.08	12.05	7.26	25.76	0.983	0.29	1.51	no	moderate	-207.3
1006	0.24	0.72	0.08	12.63	7.19	25.81	0.991	2.30	1.18	↓	↓	-220.2
1009	0.24	0.96	0.08	13.19	7.23	25.91	0.992	2.39	0.16			-221.9
1019	0.8	1.76	0.08	13.98	7.26	26.35	1.1013	2.36	0.54			-242.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sodas / Cook /ARCADIS	Matthew Sodas	1030	1039

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
37.5	PE	Y	0.45 um

Filtration Equipment Type: Disposable Filter

FIELD DECONTAMINATION: PUMP(Y/N) Y/N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-171	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-171	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-171	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: DO not reading accurately (MDS)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1245

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-172	SAMPLE ID: MW-172	DATE: 3/27/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 15.74	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1321	TOTAL VOLUME PURGED (gallons): 1.47

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1308	0.56	0.56	0.07	16.78	7.32	27.70	729	1.05	10.30	no	slight	-230.2
1311	0.21	0.77	0.07	16.87	7.30	27.55	721	0.50	8.26	↓	↓	-227.2
1314	0.21	0.98	0.07	16.91	7.29	27.96	726	0.37	7.87			-222.7
1317	0.21	1.19	0.07	16.94	7.30	27.62	723	0.34	5.48			-250.3
1321	0.28	1.47	0.07	16.97	7.30	27.56	719	0.27	5.48			-251.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M.Sedor J.Cook /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1326	SAMPLING ENDED AT: 1328
PUMP OR TUBING DEPTH IN WELL (feet): 105	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-172	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: very high wind (40 mph gust)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-173	SAMPLE ID: MW-173	DATE: 3/25/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 142 feet to 152 feet	STATIC DEPTH TO WATER (feet): 15.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 152 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 147	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 147	PURGING INITIATED AT: 1540	PURGING ENDED AT: 1601	TOTAL VOLUME PURGED (gallons): 1.575

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1549	0.675	0.675	0.075	17.69	7.16	25.51	0.575	0.67	6.94	no	moderate	-233.5
1552	0.225	0.9	0.075	17.92	7.16	25.52	0.575	0.64	7.08	↓	↓	-239.2
1555	0.225	1.125	0.075	18.19	7.17	25.53	0.575	0.51	5.25	↓	↓	-243.1
1558	0.225	1.35	0.075	18.29	7.17	25.53	0.576	0.41	5.71	↓	↓	-245.0
1601	0.225	1.575	0.075	18.39	7.19	25.50	0.576	0.35	4.66	↓	↓	-249.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor ICON /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1607	SAMPLING ENDED AT: 1611
PUMP OR TUBING DEPTH IN WELL (feet): 147	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-173	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-174	SAMPLE ID: MW-174	DATE: 3/25/09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 275 feet to 295 feet	STATIC DEPTH TO WATER (feet): 11.30	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 345 feet) + 0.25 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 285	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 285	PURGING INITIATED AT: 1402	PURGING ENDED AT: 1428	TOTAL VOLUME PURGED (gallons): 2.34

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1413	0.99	0.99	0.09	14.15	7.90	25.85	0.718	0.53	1.48	no	moderate	-259.9
1416	0.27	1.26	0.09	14.95	7.83	25.83	0.723	0.23	0.83	↓	↓	-269.5
1419	0.27	1.53	0.09	15.01	7.75	25.80	0.729	0.20	0.44			-281.8
1422	0.27	1.80	0.09	15.65	7.72	25.72	0.729	0.17	0.28			-285.0
1425	0.27	2.07	0.09	16.09	7.68	25.62	0.731	0.16	0.27			-286.5
1428	0.27	2.34	0.09	16.44	7.66	25.57	0.735	0.14	0.45			-287.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT: 1433
PUMP OR TUBING DEPTH IN WELL (feet): 285	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-174	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-175	SAMPLE ID: MW-175	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 98.3 feet to 108.3 feet	STATIC DEPTH TO WATER (feet): 22.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 120 feet) + 0.25 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 100.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 100.8	PURGING INITIATED AT: 1533	PURGING ENDED AT: 1553	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1538	0.4	0.4	0.08	22.05	7.35	27.4	850	0.23	18.1	DARK	slight	-367
1543	0.4	0.8	↓	22.05	7.34	27.1	862	0.15	18.6	↓	↓	-381
1548	0.4	1.2		22.05	7.32	26.9	863	0.18	18.0			-383
1553	0.4	1.6		22.05	7.31	26.9	864	0.21	18.5			-368

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Leverette/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1554	SAMPLING ENDED AT: 1557
PUMP OR TUBING DEPTH IN WELL (feet): 100.8	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-175	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Small Black Debris (particles) in H20

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
NO: MW-176	SAMPLE ID: MW-176	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 150 feet to 160 feet	STATIC DEPTH TO WATER (feet): 23.1	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = .48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 155	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 155	PURGING INITIATED AT: 0955	PURGING ENDED AT: 10:45	TOTAL VOLUME PURGED (gallons): 1.44

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1010	.45	.45	.03	24.50	6.92	25.10	674	.25	8.49	clear	none	-146
1013	.09	.54	.03	24.66	7.15	24.90	660	.28	4.27			-150
1016	.09	.63	.03	24.75	7.21	24.84	664	.26	2.43			-158.8
1019	.09	.72	.03	24.82	7.27	24.79	663	.21	1.97			-162
1022	.09	.81	.03	24.89	7.18	24.71	662	.21	2.45			-160.5
1037	.45	1.26	.03	25.19	7.20	25.23	674	.17	5.47			-172.4
1040	.09	1.35	.03	25.20	7.32	25.27	674	.17	5.83			-174.4
1043	.09	1.44	.03	25.21	7.31	25.28	674	.15	6.15			-174.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J Cook Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Jeff Cook Ryan Tuttle	SAMPLING INITIATED AT: 10:45	SAMPLING ENDED AT: 1052
PUMP OR TUBING DEPTH IN WELL (feet): 155	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-176	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:
Lowest possible flow rate - well coll. to drawdown

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
NO: MW-177	SAMPLE ID: MW-177	DATE: 3/31/2009

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 285 feet to 305 feet	STATIC DEPTH TO WATER (feet): 19.65	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 360 feet) + 0.25 gallons = 0.76 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 295	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 295	PURGING INITIATED AT: 09:52	PURGING ENDED AT: 11:14	TOTAL VOLUME PURGED (gallons): 2.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) ORP
10:18	0.78	0.78	0.03	20.28	7.72	26.52	697	0.25	94.1	Gray	No -173.2
10:43	0.75	1.53	0.03	20.28	7.75	27.21	707	0.16	13.1	No	No -224.7
11:08 10:47	0.75	2.28	0.03	20.28	7.69	27.32	710	0.17	7.44	No	No -226.1
11:11	0.09	2.37	0.03	20.28	7.69	27.21	705	0.17	4.63	No	No -276.3
11:14	0.09	2.46	0.03	20.28	7.73	27.36	708	0.17	3.76	No	No -281.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 11:15	SAMPLING ENDED AT: 11:21
PUMP OR TUBING DEPTH IN WELL (feet): 295	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-177	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Sampled with peristaltic pump per J. Linton and M. Davidson

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-178	SAMPLE ID: MW-178	DATE: ~~3/3~~ RT 4/1/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 31.5 feet to 36.5 feet	STATIC DEPTH TO WATER (feet): 15.84	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34	PURGING INITIATED AT: 11:34	PURGING ENDED AT: 12:12	TOTAL VOLUME PURGED (gallons): 1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
11:42	0.32	0.32	0.04	16.77	7.51	26.08	744	3.45	1.79	Clear	No	-4.8
11:45	0.12	0.44	0.04	16.83	7.50	26.17	744	3.64	1.34	Clear	No	0.4
11:48	0.12	0.56	0.04	16.86	7.48	26.30	745	3.93	1.46	Clear	No	3.8
11:51	0.12	0.68	0.04	16.89	7.46	26.21	743	3.58	1.40	Clear	No	7.3
11:54	0.12	0.8	0.04	16.89	7.46	26.26	743	3.71	1.71	Clear	No	8.6
11:57	0.12	0.92	0.04	16.89	7.42	26.21	744	1.88	1.24	Clear	No	11.4
12:00	0.12	1.04	0.04	16.89	7.34	26.43	821	1.11	1.37	Clear	No	-103.7
12:03	0.12	1.16	0.04	16.89	7.21	26.44	918	0.77	1.68	Clear	No	-126.3
12:06	0.12	1.28	0.04	16.89	7.13	26.41	961	1.18	1.46	Clear	No	-144.9
12:09	0.12	1.4	0.04	16.89	7.12	26.59	982	0.57	1.39	Clear	No	-154.7
12:12	0.12	1.52	0.04	16.89	7.10	26.55	998	0.36	1.63	Clear	No	-162.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 12:13	SAMPLING ENDED AT: 12:30
PUMP OR TUBING DEPTH IN WELL (feet): 34	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-178	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-178	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-178	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-179	SAMPLE ID: MW-179	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 93 feet to 103 feet	STATIC DEPTH TO WATER (feet): 17.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = .40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 98	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 98	PURGING INITIATED AT: 1116	PURGING ENDED AT: 1141	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1123	.35	.35	.05	17.53	7.12	25.93	882	.24	9.36	Clear	none	-174.5
1126	.15	.5	.05	17.50	7.14	26.08	913	.21	5.43			-186.4
1129	.15	.65	.05	17.50	7.15	26.02	917	.19	3.45			-190.3
1132	.15	.8	.05	17.51	7.15	25.99	917	.17	2.99			-193.6
1135	.15	.95	.05	17.48	7.15	26.20	920	.18	2.66			-197.1
1138	.15	1.1	.05	17.48	7.15	26.11	919	.16	2.55			-203.4
1141	.15	1.25	.05	17.48	7.15	26.02	919	.13	3.21			-205.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JCook /ARCADIS	SAMPLER(S) SIGNATURE(S): JCook	SAMPLING INITIATED AT: 1142	SAMPLING ENDED AT: 1153
PUMP OR TUBING DEPTH IN WELL (feet): 98	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-179	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-180	SAMPLE ID: MW-180	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145.3 feet to 155.3 feet	STATIC DEPTH TO WATER (feet): 18.14	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 155 feet) + 0.25 gallons = 1.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 0908	PURGING ENDED AT: 0939	TOTAL VOLUME PURGED (gallons): 1.65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
0913	.47	.47	.055	19.63	7.32	24.74	751	.23	42.2	Cloudy	none	
0920	.165	.63	.055	19.80	7.33	24.76	752	.22	38.2			
0923	.17	0.8	.055	19.84	7.32	24.86	753	.23	41.6			
0926	.17	.97	.055	19.85	7.33	24.91	754	.24	40.3			
0929	.17	1.14	.055	19.90	7.32	24.96	755	.29	36.2			
0932	.17	1.31	.055	19.96	7.32	24.93	756	.24	32.6			-157.8
0936	.17	1.48	.055	20.03	7.32	25.01	756	.17	32.1			-159.6
0939	.17	1.65	.055	20.09	7.27	25.02	758	.17	28.5			-151.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J.Cook /ARCADIS	SAMPLER(S) SIGNATURE(S): J.Cook	SAMPLING INITIATED AT: 0940	SAMPLING ENDED AT: 0951
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-180	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
NO: MW-181	SAMPLE ID: MW-181	DATE: 4/1/2009

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 275 feet to 295 feet	STATIC DEPTH TO WATER (feet): 13.57	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 345 feet) + 0.25 gallons = 0.73 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 285	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 285	PURGING INITIATED AT: 14:25	PURGING ENDED AT: 15:16	TOTAL VOLUME PURGED (gallons): 2.35

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
14:40	0.75	0.75	0.05	16.33	8.78	27.68	782	0.82	4.22	Clear	Sulfur	-236.9
~~14:58~~ AT	~~0.72~~									~~Clear~~	~~Sulfur~~	NT
14:54	0.70	1.45	0.05	17.02	7.94	28.38	794	0.65	4.16	Clear	Sulfur	-241.9
15:07	0.45	1.9	0.05	17.25	8.01	28.34	793	0.58	4.04	Clear	Sulfur	-260.0
15:10	0.15	2.05	0.05	17.29	7.99	27.94	786	0.57	3.73	Clear	Sulfur	-235.4
15:13	0.15	2.20	0.05	17.30	7.94	27.93	786	0.56	3.29	Clear	Sulfur	-244.3
15:16	0.15	2.35	0.05	17.33	8.01	28.00	789	0.53	3.63	Clear	Sulfur	-239.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
..G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 15:17	SAMPLING ENDED AT: 15:36
PUMP OR TUBING DEPTH IN WELL (feet): 285	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-181	12 + AT	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

MS/MSD collected

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1436

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-182	SAMPLE ID:	MW-182	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	164 feet to 174 feet	17.92	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) =
0 gallons + (0.0014 gallons/foot X 180 feet) + 0.25 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
169	169	1451	1514	1.61

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1459	0.56	0.56	0.07	20.30	7.60	29.06	642	0.24	25.80	no	strong	-200.5
1502	0.21	0.77	0.07	20.89	7.63	28.94	636	0.23	29.00			-190.5
1505	0.21	0.98	0.07	21.33	7.63	28.85	588	0.22	23.3			-184.2
1508	0.21	1.19	0.07	21.54	7.62	28.87	572	0.21	23.8			-181.7
1511	0.21	1.40	0.07	21.61	7.62	28.83	559	0.21	22.9			-179.7
1514	0.21	1.61	0.07	21.73	7.60	28.78	551	0.20	21.2			-183.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor / C HOLTING /ARCADIS	Matthew D Sedor / C Holting	1517	1521

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
169	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) X N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-182	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-183	SAMPLE ID: MW-183	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 5.25	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17'	PURGING INITIATED AT: 1323	PURGING ENDED AT: 1403	TOTAL VOLUME PURGED (gallons): 1.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1328	.32	.32	.06	5.75	6.36	27.5	803	0.85	16.8	clear	slight	273
1333	.32	.64		5.75	6.29	27.6	804	0.66	16.9			260
1338 1338	.32	.96		5.75	6.23	27.6	801	0.51	14.8			254
1343 1403	.32	1.28		5.75	6.21	27.7	795	0.49	13.60			185

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
S INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S.Leverette R. Kontos/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1404 (1345)	SAMPLING ENDED AT: 1400
PUMP OR TUBING DEPTH IN WELL (feet): 17'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-183	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-183	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-183	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-184	SAMPLE ID:	MW-184	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	28 feet to 33 feet	STATIC DEPTH TO WATER (feet):	11.99	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	30.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	30.5'	PURGING INITIATED AT:	1405	PURGING ENDED AT:	1436	TOTAL VOLUME PURGED (gallons):	1.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1410	.32	.32	0.06	12.55	7.05	28.0	515	0.30	12.6	clear	Slight	-292
1415	.32	.64	↓	12.55	7.03	28.0	554	0.25	8.06	↓	↓	-258
1420	.32	.96		12.55	7.04	28.0	670	0.28	6.93			-387
1425	.32	1.28		12.55	7.07	28.1	751	0.23	6.01			
1430	.32	1.60		12.55	7.08	28.2	788	0.22	6.06			
1433	.18	1.78		12.55	7.08	28.3	801	0.18	5.71			
1436	.18	1.96		12.55	7.08	28.3	806	0.18	4.89			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
S.Leverette R.Kontos /ARCADIS		1437	1452

PUMP OR TUBING DEPTH IN WELL (feet):	30.5'	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
				Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-184	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-184	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-184	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Small Black particles in H_2O

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-185	SAMPLE ID:	MW-185	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	85 feet to 95 feet	17.80	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 95 feet) + 0.25 gallons = 0.38 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
90'	90'	1458	1516	1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1504	0.4	0.4	0.06	18.50	7.30	26.2	824	0.20	5.62	Clear	Slight	-158
1510	0.4	0.8	↓	18.50	7.33	26.3	826	0.17	4.31	↓	↓	-209
1516	0.4	1.2	↓	18.50	7.34	26.3	828	0.15	3.37	↓	↓	-213

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Leverette /ARCADIS		1517	1524

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
90'	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-185	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-185	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-185	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-186	SAMPLE ID: MW-186	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 150 feet to 160 feet	STATIC DEPTH TO WATER (feet): 15.59	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 165' feet) + 0.25 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 155	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 155	PURGING INITIATED AT: 15:35	PURGING ENDED AT: 1615	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1545	0.5	0.5	0.05	16.98	7.51	27.3	800	0.18	7.41	clear	slight	-282
1555	0.5	1.0	↓	16.98	7.40	27.1	800	0.18	3.25	↓	↓	-286
1605	0.5	1.5		16.98	7.48	27.0	796	0.17	3.97			-297
1615	0.5	2.0		16.98	7.50	26.9	797	0.16	2.63			-152

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1.5 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kondos, S. Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1616	SAMPLING ENDED AT: 1620
PUMP OR TUBING DEPTH IN WELL (feet): 155	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
		Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-186	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-187	SAMPLE ID: MW-187	DATE: 4-1-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 280 feet to 300 feet	STATIC DEPTH TO WATER (feet): 15.64	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 350 feet) + 0.25 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 290'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 290'	PURGING INITIATED AT: 1605	PURGING ENDED AT: 1643	TOTAL VOLUME PURGED (gallons): 1.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm mS/cm	DISSOLVED OXYGEN (circle units) mg/L % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
~~1.00~~	~~1.00~~	~~0.03~~	~~16.66~~	~~8.08~~	~~30~~							
16:31	1.00	1.00	0.03	17.87	11.60	28.08	1317	0.41	2.77	Clear	None	-278
16:34	0.09	1.09	0.03	18.07	11.61	28.13	1317	0.41	2.77	↓	↓	-280
16:37	0.09	1.18	0.03	18.29	11.61	28.14	1317	0.38	2.45			-279
16:40	0.06	1.24	0.02	18.46	11.60	28.21	1316	0.40	2.10			-277
16:43	0.06	1.30	0.02	18.70	11.59	28.33	1325	0.37	1.82			-274

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
AC JK /ARCADIS		1645	1651

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
290'	PE	N Filtration Equipment Type: NA	N/A um

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ NA TUBING(Y/N replaced) ~~N~~ Y DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-187	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Unable to stabilize drawdown. Needs J. plug

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-188	SAMPLE ID: MW-188	DATE: 3.31.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 12 feet to 17 feet	STATIC DEPTH TO WATER (feet): ~~12.57~~ 5.54' AC	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 14.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.5	PURGING INITIATED AT: 1257	PURGING ENDED AT: 1330	TOTAL VOLUME PURGED (gallons): 1.98

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1312	0.8	0.8	0.06	5.95		26.03	1007	0.28	1.55	clear	none	-25.2
1315	0.18	0.98	↓	5.88	6.07	26.94	1029	0.22	2.90	colorless	noted	-31.0
1318	↓	1.16		5.89	5.93	27.19	1037	0.21	2.04	↓	↓	-26.2
1321		1.34		5.89	6.06	27.24	1044	0.18	2.04			-28.3
1324		1.52		5.89	6.08	27.35	1049	0.22	1.76			-30.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1330	SAMPLING ENDED AT: 1340
PUMP OR TUBING DEPTH IN WELL (feet): 14.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): ~~Y~~ N	for dissolved metals only

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-188	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-188	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-188	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-189	SAMPLE ID: MW-189		DATE: 3.31.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 28 feet to 33 feet	STATIC DEPTH TO WATER (feet): 10.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	PURGING INITIATED AT: 1239	PURGING ENDED AT: 1255	TOTAL VOLUME PURGED (gallons): 0.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1249	0.50	0.50	0.05	11.08	7.23	26.00	780	0.26	1.31	Clear	None	119
1252	0.15	0.65	0.05	11.09	7.23	25.94	779	0.23	1.25	↓	↓	113
1255	0.15	0.80	0.05	11.10	7.25	25.89	777	0.25	1.11	↓	↓	99

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 30'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y FILTER SIZE: 0.45 um Filtration Equipment Type: Disposable Filter dissolved metals	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-189	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-189	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-189	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-190	SAMPLE ID: MW-190	DATE: 3.31-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 90 feet to 100 feet	STATIC DEPTH TO WATER (feet): 16.06	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95'	PURGING INITIATED AT: 1550	PURGING ENDED AT: 1636	TOTAL VOLUME PURGED (gallons): 0.92

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1627	0.74	0.74	0.02	16.59	7.43	25.06	791	0.66	5.07	Clear	None	-108
1630	0.06	0.80	0.02	16.59	7.41	24.99	791	0.35	2.26	↓	↓	-113
1633	0.06	0.86	0.02	16.63	7.41	24.97	789	0.32	1.18			-115
1636	0.06	0.92	0.02	16.62	7.41	24.98	789	0.26	1.80			-118

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1645	SAMPLING ENDED AT: 1652
PUMP OR TUBING DEPTH IN WELL (feet): 95'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-190	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

Dup. 08 "

REMARKS: Field Blank collected

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-191	SAMPLE ID: MW-191	DATE: 3.31.09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 146 feet to 156 feet	STATIC DEPTH TO WATER (feet): 13.83	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = 0.474 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 151	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 151	PURGING INITIATED AT: 1420	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (gallons): 1.38

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) ~~umhos/cm~~ or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or ~~% saturation~~	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1451	1.2 ~~0.00~~	1.2	0.02	15.86	7.82	27.25	753	0.10	4.95	Clear	None	-233
1454	0.00	1.20	↓	15.87	7.60	27.32	753	0.09	3.42	colorless	noted	-242
1457	0.00	1.32		15.90	7.69	27.28	753	0.08	2.77	↓	↓	-254
1500	0.00	1.38		15.90	7.78	27.23	753	0.08	2.60			-259

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1520
PUMP OR TUBING DEPTH IN WELL (feet): 151	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: ~~N/A~~	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-191	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

MW-191MS "
MW-191MSD "

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-192	SAMPLE ID: MW-192	DATE: 3-31-09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 280 feet to 300 feet	STATIC DEPTH TO WATER (feet): 9.40	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 350 feet) + 0.25 gallons = 0.74 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 290'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 290'	PURGING INITIATED AT: 1340	PURGING ENDED AT: 1438	TOTAL VOLUME PURGED (gallons): 1.06

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1429	0.88	0.88	0.02	15.59	11.52	31.88	1923	0.08	14.7	Clear	None	-96
1432	0.06	0.94	0.02	15.78	11.52	32.20	1930	0.07	9.85	↓	↓	-102
1435	0.06	1.00	0.02	16.07	11.52	32.21	1932	0.07	9.67			-105
1438	0.06	1.06	0.02	16.39	11.52	32.39	1928	0.07	8.44			-110

\ APACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T. 3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1439	SAMPLING ENDED AT: 1448
PUMP OR TUBING DEPTH IN WELL (feet): 290'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-192	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Unable to stabilize drawdown

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-193	SAMPLE ID:	MW-193	DATE: 3.26.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	90 feet to 100 feet	16.20	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = .39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
95	95	957	1017	1.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1009	.84	.84	.07	16.18	7.42	24.26	619	.44	.97	clear	Slight to none	-132.9
1012	.21	.98	.07	16.18	7.46	24.30	619	.49	.45	↓	↓	-139.7
1015	.21	1.19	.07	16.18	7.49	24.38	620	.39	.32			-146.6
1017	.14	1.40	.07	16.18	7.47	24.40	620	.39	.39	↓	↓	-155.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
OR INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1020	1030

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
95	PE	N	N\A um

Filtration Equipment Type: N\A

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-193	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: windy, sunny, by side of busy road.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida		
WELL NO:	MW-194	SAMPLE ID:	MW-194	DATE:	3.24.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 12.98	PURGE PUMP TYPE OR BAILER: PP	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 1004	PURGING ENDED AT: 275	TOTAL VOLUME PURGED (gallons): 11.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
10:45	2.25	2.25	.05	17.10	7.58	24.89	707	.37	61.8	Cloudy	NONE	
10:48	.1	2.35	.05	17.10	7.59	24.99	709	.34	51.1			
10:51	.1	2.45	.05	17.15	7.59	25.03	710	.31	57.3			
10:54	.1	2.55	.05	17.22	7.59	25.02	709	.27	53.8			-228.1
10:57	.1	2.65	.05	17.28	7.59	25.02	708	.23	42.8			-230.5
11:00	.1	2.75	.05	17.33	7.60	24.98	708	.20	59.7			-233.6
11:03 SK												
11:06 SK												

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK / CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1115
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-194	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Both bolt head snapped off, threads still in

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-195	SAMPLE ID: MW-195	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 280 feet to 300 feet	STATIC DEPTH TO WATER (feet): 12.34	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 300 feet) + 0.25 gallons = 6.7 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 290	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 290	PURGING INITIATED AT: 1400	PURGING ENDED AT: 1441	TOTAL VOLUME PURGED (gallons): 2.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1424	1.2	1.2	.05	18.91	8.07	26.96	1033	.14	12.1	clear	none	
1427	.15	1.35	.05	19.22	8.10	26.98	1034	.14	10.0			
1430	.15	1.50	.05	19.31	8.10	27.15	1037	.14	9.51			
1433	.15	1.65	.05	19.65	8.11	27.30	1040	.15	7.38			-242.1
1436	.15	1.80	.05	20.16	8.11	27.53	1044	.15	7.38			-243.9
1439	.15	1.95	.05	20.54	8.11	27.68	1047	.16	6.94			-237.3
1441	.1	2.05	.05	20.87	8.11	27.78	1048	.17	7.23			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: 1455
PUMP OR TUBING DEPTH IN WELL (feet): 290	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: NA	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-195	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
NO: MW-196	SAMPLE ID: MW-196	DATE: 4/2/2009

PURGING DATA

21.82 FT

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 90 feet to 100 feet	STATIC DEPTH TO WATER (feet): ~~20.79~~	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95	PURGING INITIATED AT: 08:28	PURGING ENDED AT: 08:42	TOTAL VOLUME PURGED (gallons): 1.26

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
08:33	0.45	0.45	0.09	21.85	7.04	24.58	879	0.88	9.18	Clear	No	-55.2
08:36	0.27	0.72	0.09	21.84	7.02	24.65	885	0.48	4.60	Clear	No	-63.5
08:39	0.27	0.99	0.09	21.82	7.02	24.67	887	0.37	1.83	Clear	No	-70.9
08:42	0.27	1.26	0.09	21.80	7.03	24.68	888	0.37	1.26	Clear	No	-77.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

08:51

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 08:43	SAMPLING ENDED AT: 08:51
PUMP OR TUBING DEPTH IN WELL (feet): 95	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-196	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-197	SAMPLE ID:	MW-197	DATE: 4/2/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	106 feet to 116 feet	23.93	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 116 feet) + 0.25 gallons = 0.41 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
111	111	09:12	09:47	1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
09:23	0.44	0.44	0.04	26.82	7.51	25.62	657	0.30	4.32	Clear	No	-120.7
09:34	0.44	0.88	0.04	28.19	7.40	25.68	656	0.19	2.42	Clear	No	-118.9
09:41	0.28	1.16	0.04	28.78	7.42	25.74	657	0.23	2.32	Clear	No	-136.8
09:44	0.12	1.28	0.04	29.00	7.44	25.83	658	0.20	2.03	Clear	No	-140.8
09:47	0.12	1.4	0.04	29.22	7.44	25.87	658	0.17	2.10	Clear	No	-150.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
FOR SCH 40 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	09:48	09:55

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
111	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-197	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Pumping at lowest possible flow rate, well continues to drawdown

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-198	SAMPLE ID:	MW-198	DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	11 feet to 16 feet	STATIC DEPTH TO WATER (feet):	4.90	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 30 feet) + 0.25 gallons = 0.30 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	13	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	13	PURGING INITIATED AT:	11:34	PURGING ENDED AT:	1219	TOTAL VOLUME PURGED (gallons):	2.46

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1144	.6	.60	.06	8.09	6.42	24.87	803	.31	77.1	clear	none
clear out		flow thru cell									
1157		1.38	.06	8.83	6.33	25.41	813	.39	78.6		
1159	.12	1.5	.06	8.93	6.31	25.52	813	.38	63.2		
1201	.12	1.62	.06	8.98	6.33	25.62	816	.34	—		
1203	.12	1.74	.06	9.02	6.32	25.67	817	.40	36.7		
1205	.12	1.86	.06	9.03	6.33	25.71	817	.46	32.6		
1207	.12	1.98	.06	8.98	6.33	25.88	819	1.13	24.3		
1210	.12	2.1	.06	8.78	6.35	26.27	825	.94	20.0		
1213	.12	2.22	.06	8.59	6.35	26.23	824	.55	16.4		
1216	.12	2.34	.06	8.40	6.31	26.01	819	.38	14.1		
1219	.12	2.46	.06	8.16	6.35	26.89	832	.73	13.9		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SEK /ARCADIS	SAMPLER(S) SIGNATURE(S):	Arcadis	SAMPLING INITIATED AT:	1220	SAMPLING ENDED AT:	1230
PUMP OR TUBING DEPTH IN WELL (feet):	13	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter		FILTER SIZE:	0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-198	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-198	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-198	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-199	SAMPLE ID: MW-199	DATE: 3.24.09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 12.09	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 1.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 1218	PURGING ENDED AT: 1239	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1227	.45	.45	.05	12.80	7.31	27.61	862	.42	.76	none	none
1229	.1	.55	.05	12.78	7.32	27.99	868	.37	.14		
1231	.1	.65	.05	12.77	7.32	28.22	874	.39	.50		
1233	.1	.75	.05	12.77	7.33	28.46	880	.41	.25		
1235	.1	.85	.05	12.77	7.34	28.70	885	.53	.41		
1237	.1	.95	.05	12.77	7.35	28.66	885	.54	.25		
1239	.1	1.05	.05	12.77	7.35	28.70	885	.52	.06		

CASING CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
SS INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK /ARCADIS	SAMPLER(S) SIGNATURE(S): Dana Kinnel	SAMPLING INITIATED AT: 1245	SAMPLING ENDED AT: 1300
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-199	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-199	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-199	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-200	SAMPLE ID:	MW-200	DATE: 3.24.09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	90 feet to 100 feet	STATIC DEPTH TO WATER (feet):	13.93	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = .39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	95	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	95	PURGING INITIATED AT:	11:04	PURGING ENDED AT:	1127	TOTAL VOLUME PURGED (gallons):	1.61

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1121	1.19	1.19	.07	14.09	7.41	25.11	819	.19	11.0	none	none
1123	.14	1.33	.07	14.04	7.49	25.20	820	.19	11.2		
1125	.14	1.47	.07	14.07	7.53	25.20	824	.19	8.43		
1127	.14	1.61	.07	14.06	7.50	25.19	828	.18	7.70		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
S INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SEIC /ARCADIS	SAMPLER(S) SIGNATURE(S):	Sara Kinsel	SAMPLING INITIATED AT:	1130	SAMPLING ENDED AT:	1140
PUMP OR TUBING DEPTH IN WELL (feet):	95	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A		FILTER SIZE:	N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-200	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: needs new plug

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-201	SAMPLE ID:	MW-201	DATE: 3.24.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	150 feet to 160 feet	11.75	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 175 feet) + 0.25 gallons = 1.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
155	155	925	1006	1.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
938	.52	.52	.04	14.76	7.73	22.76	812	.58	6.43	NONE	NONE
941	.16	.68	.04	15.23	7.61	23.07	823	.45	4.57		
945	.12	.80	.04	15.57	7.54	23.17	823	.43	4.39		
948	.12	.92	.04	15.12	7.56	23.12	824	.40	3.77		
951	.12	1.04	.04	16.27	7.53	23.66	833	.37	3.83		
954	.12	1.16	0.04	16.55	7.53	24.37	845	.34	3.88		
957	.12	1.28	.04	16.85	7.54	24.80	853	.30	2.69		
1000	.12	1.40	.04	17.10	7.54	24.95	855	.29	2.99		
1003	.12	1.52	.04	17.25	7.56	25.15	857	.29	2.43		
1006	.12	1.64	.04	1741	7.57	2509	857	.25	3.05		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Charles Woods /ARCADIS	Charles Woods	1010	1015

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
	PE	N Filtration Equipment Type: N/A	N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-201	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Sunny mid 70's

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-202	SAMPLE ID: MW-202	DATE: 3.24.09	

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 280 feet to 300 feet	STATIC DEPTH TO WATER (feet): 9.23	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 315 feet) + 0.25 gallons = .7 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 290	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 290	PURGING INITIATED AT: 1024	PURGING ENDED AT: 11:10	TOTAL VOLUME PURGED (gallons): 2.22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:56		.15	.06	14.82	7.72	25.97	885	.24	3.56	none	none
10:59	.18	.168	.06	15.10	7.79	25.94	886	.24	3.70		
11:02	.12	.186	.06	15.26	7.81	26.03	886	.23	2.90		
11:05	.12	2.04	.06	15.40	7.74	26.06	887	.19	2.68		
11:08	.12	2.22	.06	15.12	7.76	26.10	888	.20	2.41		
~~11:11~~ CCW			~~.06~~ CCW								
~~11:14~~ CCW			~~.06~~ CCW								

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Charles Woods /ARCADIS	SAMPLER(S) SIGNATURE(S): Charles Woods	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1120
PUMP OR TUBING DEPTH IN WELL (feet): 290	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-202	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC FACILITY	SITE LOCATION: Tallevast, FL	
WELL NO: MW-203	SAMPLE ID: MW-203	DATE: 4/15/09

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): N/A	WELL SCREEN INTERVAL DEPTH: 390 feet to 410 feet	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 1415	PURGING ENDED AT: 1425	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
					NO PURGE			N/A			
					NE						

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK DAVIDSON / RYAN TUTTLE	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1426	SAMPLING ENDED AT: 1430
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-203	4	GG	40mL	HCl	N/A	—	8260 Sim	O-Spigot	~100

REMARKS: PRIVATE WELL - ALLOWED TO PURGE FOR ~10 min before sample was collected at spigot - NO PARAMETER REQUIRED

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-204	SAMPLE ID:	MW-204	DATE: 3.24.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	11 feet to 16 feet	5.74	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
13.5	13.5	1530	1558	2.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:46	1.64	1.64	0.08	6.57	6.37	23.97	889	1.17	8.87	none	none
15:49	.16	1.8	0.08	6.58	6.37	24.26	880	.63	5.71		
15:52	.16	1.96	0.08	6.60	6.37	24.25	865	.49	4.44		
15:55	.16	2.12	0.08	6.61	6.37	24.03	857	.45	4.07		
15:58	.16	2.28	0.08	6.62	6.36	23.92	834	.31	3.40		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS		1600	1615

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
13.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-204	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-204	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-204	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-205	SAMPLE ID:	MW-205	DATE: 3.24.09

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	30 feet to 35 feet	STATIC DEPTH TO WATER (feet):	10.94	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	32	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	32	PURGING INITIATED AT:	1425	PURGING ENDED AT:	14:36	TOTAL VOLUME PURGED (gallons):	1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:38	.91	.91	.07	15.45	7.24	25.72	737	1.30	1.47	NONE	NONE
14:41	.14	1.05	.07	16.10	7.22	26.01	738	1.15	1.19		
14:44	.14	1.19	.07	16.40	7.22	26.09	740	1.03	1.84		
14:47	.14	1.33	.07	16.78	7.22	25.86	736	.96	1.45		
14:50	.14	1.47	.07	17.16	7.21	25.69	733	.90	.86		
14:53	.14	1.61	.07	17.53	7.21	25.52	731	.82	1.28		
14:56	.14	1.75	.07	17.88	7.20	25.85	732	.73	1.30		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SEK / ARCADIS	SAMPLER(S) SIGNATURE(S):	Sara Kmec	SAMPLING INITIATED AT:	1505	SAMPLING ENDED AT:	1520
PUMP OR TUBING DEPTH IN WELL (feet):	32	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y	Filtration Equipment Type: Disposable Filter	FILTER SIZE:	0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-205	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-205	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-205	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: guy mowing adjacent to wells

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-206	SAMPLE ID:	MW-206	DATE: 3.24.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	90 feet to 100 feet	15.13	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = .39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
95	95	1422	1453	1.92

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1442	1.2	1.2	.06	15.41	7.35	25.80	726	.53	.63	none	none
1444	.12	1.32	.06	15.41	7.41	25.71	726	.47	.86		
1446	.12	1.44	.06	15.41	7.42	25.60	725	.45	1.19		
1448	.12	1.56	.06	15.41	7.42	25.42	723	.43	.86		
1450	.12	1.68	.06	15.41	7.41	25.20	718	.39	.73		
1452	.12	1.80	.06	15.41	7.40	25.16	718	.38	.54		
1453	.12	1.92	.06	15.41	7.40	25.18	718	.37	.45		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS	Sara Kilmer	1455	1505

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
95	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-206	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: lawn is being mowed next to the wells.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-207	SAMPLE ID:	MW-207	DATE: 3.24.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.5	0.1875	281 feet to 301 feet	10.57	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 301 feet) + 0.25 gallons = .67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
291	291	1533	1615	2.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) ~~mg/L~~ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1607	1.7	1.7	0.05	15.95	11.60	26.60	1337		5.85	none	none
1609	.1	1.8	0.05	16.01	11.63	26.62	1337	0.74	1.78		
1611	.1	1.9	0.05	16.18	11.60	26.46	1337	.55	1.28		
1613	.1	2.0	0.05	16.33	11.55	26.44	1336	.46	0.96		
1615	.1	2.1	0.05	16.42	11.59	26.50	1336	.43	0.94	↓	↓

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEIL/CW /ARCADIS		1620	1630

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
291	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-207	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: grass Mowing

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-208	SAMPLE ID:	MW-208	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	16 feet to 21 feet	4.20	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
19'	19'	0949	10:15	1.56

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:00	0.66	0.66	0.06	4.43	7.10	23.96	1532	0.69	4.64	Clear	None	-85
10:03	0.18	0.84	0.06	4.43	7.10	24.08	1528	0.58	3.99	↓	↓	-94
10:06	0.18	1.02	0.06	4.43	7.11	24.20	1532	0.53	2.56			-99
10:09	0.18	1.20	0.06	4.43	7.11	24.33	1529	0.57	3.50			-105
10:12	0.18	1.38	0.06	4.43	7.12	24.40	1517	0.74	3.44			-109
10:15	0.18	1.56	0.06	4.43	7.13	24.40	1514	0.71	3.56			-117

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
J. Kerstetter /ARCADIS		1025	1035

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
19'	PE	Y Filtration Equipment Type: Disposable Filter	0.45 um (for dissolved metals only)

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-208	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-208	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-208	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-209	SAMPLE ID:	MW-209	DATE: 4.1.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	41 feet to 46 feet	9.15	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
43.5'	43.5'	0952	1026	1.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1008	0.8	0.8	0.02	15.58	7.27	25.42	2554	0.34	2.15	clear	none	-71.7
1011	0.06	0.86		15.78	7.27	25.53	2554	0.72	2.47	colorless	none	-74.5
1014		0.92		15.97	7.29	25.59	2552	0.50	1.92			-76.6
1017		0.98		16.30	7.28	25.79	2549	0.42	1.80			-77.5
1020		1.04		16.46	7.28	26.11	2560	0.42	2.04			-79.9
1023		1.10		16.68	7.28	26.22	2567	0.41	2.12			-81.7
1026		1.16		16.83	7.28	26.30	2568	0.37	1.64			-83.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Amy Coats /ARCADIS		1030	1040

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
43.5'	PE	Filtration Equipment Type: Disposable Filter	dissolved metals only

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-209	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-209	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-209	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Pump in slowest possible setting.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-210	SAMPLE ID: MW-210	DATE: 4/1/06

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 93 feet to 103 feet	STATIC DEPTH TO WATER (feet): 11.18	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X ~~103~~ 103 JK feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103'	PURGING INITIATED AT: 1432	PURGING ENDED AT: 1526	TOTAL VOLUME PURGED (gallons): 3.24

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
~~1015~~			~~0.8~~	~~15.47~~	~~7.30~~	~~24.91~~	~~962~~	~~0.78~~	~~0.94~~			~~78~~
			~~0.6~~				~~9.05~~		~~0.~~			~~100~~
			~~0.6~~			~~25.01~~						
1520	2.88	2.88	0.6	15.64	7.38	25.94	944	0.27	1.01	Clear	None	-203
1523	0.18	3.06	0.6	15.64	7.38	25.03	939	0.24	0.65	↓	↓	-206
1526	0.18	3.24	0.6	15.64	7.38	25.03	936	0.22	0.82	↓	↓	-197

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J. Kuratle/Arc /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1526	SAMPLING ENDED AT: 1536

PUMP OR TUBING DEPTH IN WELL (feet): 103'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-210	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-211	SAMPLE ID: MW-211	DATE: 4.1.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 140 feet to 150 feet	STATIC DEPTH TO WATER (feet): 10.43	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME 0.46
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 145	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 145	PURGING INITIATED AT: 1055	PURGING ENDED AT: 1121	TOTAL VOLUME PURGED (gallons): 0.58

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) mmhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
11:15	0.46	0.46	0.02	13.32	7.74	25.98	773	0.26	3.35	Clear	None	-237
11:18	0.06	0.46 52	0.02	13.50	7.75	26.05	775	0.22	4.44	↓	↓	-231
11:21	0.06	0.58	0.02	13.61	7.77	26.09	776	0.19	6.28	↓	↓	-225

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jon Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1140
PUMP OR TUBING DEPTH IN WELL (feet): 145	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N\A um
FIELD DECONTAMINATION: PUMP(Y/N) Y NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-211	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Unable to stabilize drawdown. Flow as low as possible.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-212	SAMPLE ID: MW-212	DATE: 4.1.09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 281 feet to 301 feet	STATIC DEPTH TO WATER (feet): 6.40	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 310 feet) + 0.25 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 191'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 191'	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1146	TOTAL VOLUME PURGED (gallons): 1.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1137	1.0	1.0	0.02	13.35	7.96	25.83	1113	0.18	3.72	clear	none	-66.1
1140	0.00	1.00	↓	13.75	7.95	26.84	1118	0.19	3.92	colorless	none	-72.0
1143	↓	1.12	↓	14.03	7.96	25.98	1117	0.17	4.90	↓	↓	-77.6
1146	↓	1.18	↓	14.53	7.96	26.03	1117	0.18	4.02	↓	↓	-81.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: AM/ Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1152	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet): 191'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) Y NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-212	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Pump on slowest setting.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-213	SAMPLE ID:	MW-213	DATE: 4/13/2009

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	15 feet to 20 feet	STATIC DEPTH TO WATER (feet):	5.14	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	17.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	17.5	PURGING INITIATED AT:	11:38	PURGING ENDED AT:	11:59	TOTAL VOLUME PURGED (gallons):	2.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
11:44	0.66	0.66	0.11	7.19	6.52	25.64	736	0.80	23.8	No	No	-145.1
11:47	0.33	0.99	0.11	7.28	6.53	25.70	735	0.94	13.5	No	No	-140.4
11:50	0.33	1.32	0.11	7.31	6.58	25.68	734	0.69	9.79	No	No	-136.1
11:53	0.33	1.64	0.11	7.33	6.57	25.29	731	0.52	6.51	No	No	-129.6
11:56	0.33	1.97	0.11	7.35	6.50	25.35	729	0.40	4.37	No	No	-119.2
11:59	0.33	2.30	0.11	7.37	6.52	25.48	727	0.32	2.62	No	No	-114.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

12:00

SAMPLED BY (PRINT) / AFFILIATION:	Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S):	Ryan Tuttle	SAMPLING INITIATED AT:	~~11:54~~ RT	SAMPLING ENDED AT:	12:13

PUMP OR TUBING DEPTH IN WELL (feet):	17.5	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
				Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-213	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-213	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-213	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

16.01

MW-150

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-214	SAMPLE ID:	MW-214	DATE: 4/13/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	30 feet to 35 feet	12.35	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
33	33	1045	1057	0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1051	0.48	0.48	0.08	12.70	7.29	25.27	856	0.61	3.97	clear	none	-229.6
1054	0.24	0.72	0.08	12.71	7.30	25.30	851	0.64	2.36	↓	↓	-237.2
1057	0.24	0.96	0.08	12.71	7.30	25.34	851	0.60	1.40	↓	↓	-236.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
MARK DAVIDSON /ARCADIS		1050	1118

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
33	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-214	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-214	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-214	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-215	SAMPLE ID:	MW-215	DATE: 4/13/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	90 feet to 100 feet	17.91	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
95	95	10:44	11:02	1.26

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:50	0.42	0.42	0.07	18.08	8.20	24.95	655	0.39	47.0	Gray	No	-236.8
10:53	0.21	0.63	0.07	18.08	7.94	24.81	661	0.25	19.0	No	No	-244.7
10:56	0.21	0.84	0.07	18.08	7.84	24.85	662	0.24	11.5	No	No	-243.8
10:59	0.21	1.05	0.07	18.08	7.81	24.87	664	0.20	5.27	No	No	-252.5
11:02	0.21	1.26	0.07	18.08	7.75	24.93	666	0.18	4.06	No	No	-264.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	11:03	11:12

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
95	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-215	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-216	SAMPLE ID: MW-216	DATE: 4/13/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 140 feet to 150 feet	STATIC DEPTH TO WATER (feet): 16.90	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 155 feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 145	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 145	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1004	TOTAL VOLUME PURGED (gallons): 1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0955	0.8	0.8	0.08	20.15	7.50	24.42	682	0.71	16.7	clear	none	-268
0958	0.24	1.04	0.08	20.52	7.48	24.47	683	0.62	13.5	↓	↓	-276
1001	0.24	1.28	0.08	20.72	7.48	24.52	683	0.60	13.7			-284
1004	0.24	1.52	0.08	20.77	7.48	24.54	682	0.53	9.51			-280

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK DAVIDSON /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 145	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-216	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-217	SAMPLE ID:	MW-217	DATE: 4/13/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.5	0.1875	280 feet to 300 feet	12.87	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 360 feet) + 0.25 gallons = 0.75 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
290	290	09:24	10:08	2.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
09:37	0.78	0.78	0.06	16.97	7.53	25.48	746	0.40	39.5	Gray	No	-210.3
09:50	0.78	1.56	0.06	19.74	7.60	25.95	768	0.47	15.8	No	No	-209.9
09:56	0.36	1.92	0.06	20.29	7.53	26.33	774	0.47	14.6	No	No	-230.0
09:59	0.18	2.10	0.06	20.43	7.53	26.42	775	0.51	10.96	No	No	-212.0
10:02	0.18	2.28	0.06	20.70	7.62	26.69	778	0.49	12.3	No	No	-238.8
10:05	0.18	2.46	0.06	21.33	7.61	26.79	781	0.47	8.78	No	No	-246.7
10:08	0.18	2.64	0.06	21.57	7.59	26.85	782	0.42	8.09	No	No	-246.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	10:09	10:16

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
290	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-217	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-218	SAMPLE ID:	MW-218	DATE: 4/16/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
5	0.1875	365 feet to 385 feet	15.90	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 390 feet) + 0.25 gallons = 0.80 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
375	375	0918	0958	2.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or us/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0952	2.04	2.04	0.06	16.16	7.47	24.41	904	0.34	19.2	clear	none	-171
0955	0.18	2.22	0.06	16.16	7.48	24.33	905	0.35	18.4	↓	↓	-169
0958	0.18	2.4	0.06	16.16	7.48	24.33	905	0.35	17.5	↓	↓	-183

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
MARK DAVIDSON /ARCADIS		0959	1010

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
375	PE	N Filtration Equipment Type: N/A	N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-218	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1415

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-219	SAMPLE ID: MW-219	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 22 feet to 27 feet	STATIC DEPTH TO WATER (feet): 5.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24.5	PURGING INITIATED AT: 1422	PURGING ENDED AT: 1445	TOTAL VOLUME PURGED (gallons): 1.61

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1430	0.56	0.56	0.07	5.12	6.43	27.78	498	0.24	66.7	Cloudy	Slight	-52.5
1433	0.21	0.77	0.07	5.09	6.44	28.03	504	0.22	44.0	Cloudy		-56.0
1436	0.21	0.98	0.07	5.07	6.46	28.48	511	0.22	29.9	clear		-57.5
1439	0.21	1.19	0.07	5.09	6.46	28.86	518	0.27	17.5	↓	↓	-58.0
1442	0.21	1.40	0.07	5.09	6.47	28.80	511	0.20	10.36			-65.6
1445	0.21	1.61	0.07	5.06	6.45	28.80	506	0.24	7.30	↓	↓	-65.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1 .G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Holton	SAMPLING INITIATED AT: 1451	SAMPLING ENDED AT: 1456
PUMP OR TUBING DEPTH IN WELL (feet): 24.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-219	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-219	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-219	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: calibration check prior to purging

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24 1340

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-220	SAMPLE ID:	MW-220	DATE: 3/30/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	39 feet to 44 feet	9.85	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
41.5	41.5	1345	1355	1.10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm ~~or uS/cm~~	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1349	0.44	0.44	0.11	13.58	7.39	26.16	857	0.20	0.96	no	moderate	-159.3
1352	0.33	0.77	0.11	14.86	7.40	26.04	815	0.16	0.50	↓	↓	-168.7
1355	0.33	1.10	0.11	16.00	7.40	26.12	830	0.14	0.36	↓	↓	-141.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor / C. Holton /ARCADIS	Matthew Sedor / C. Holton	1404	1410

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
41.5	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y/N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-220	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-220	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-220	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1306

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-221	SAMPLE ID: MW-221	DATE: 3/30/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 97 feet to 107 feet	STATIC DEPTH TO WATER (feet): 24.04	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 107 feet) + 0.25 gallons = 0.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 102	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 102	PURGING INITIATED AT: 1308	PURGING ENDED AT: 1327	TOTAL VOLUME PURGED (gallons): 1.45

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1315	0.53	0.53	0.075	25.44	7.34	26.64	1080	0.32	42.9	cloudy	moderate	-159.5
1318	0.23	0.76	0.075	25.57	7.29	26.64	1169	0.25	26.4	clear		-169.5
1321	0.23	0.99	0.075	25.64	7.27	26.69	1216	0.23	16.8	↓	↓	-167.2
1324	0.23	1.22	0.075	25.68	7.26	26.88	1268	0.22	16.3			-164.5
1327	0.23	1.45	0.075	25.69	7.24	26.67	1340	0.23	12.4			-171.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T... INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C. Holton	SAMPLING INITIATED AT: 1332	SAMPLING ENDED AT: 1335
PUMP OR TUBING DEPTH IN WELL (feet): 102	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) X N TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-221	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

1215

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-222	SAMPLE ID: MW-222	DATE: 3/30/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 133 feet to 143 feet	STATIC DEPTH TO WATER (feet): 18.36	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 193 feet) + 0.25 gallons = 0.52 gallons 1.56

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 138	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 138	PURGING INITIATED AT: 1225	PURGING ENDED AT: 1249	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1240	0.75	0.75	0.05	22.14	7.32	29.22	1639	0.32	17.2	no	moderate	-194.9
1243	0.15	0.90	0.05	22.55	7.32	29.55	1643	0.25	14.9	↓	↓	-193.0
1246	0.15	1.05	0.05	22.99	7.33	29.62	1641	0.25	13.5			-190.7
1249	0.15	1.20	0.05	23.27	7.35	29.66	1631	0.23	10.28			-272.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C. Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): M. Sedor / C. Holton	SAMPLING INITIATED AT: 1253	SAMPLING ENDED AT: 1255
PUMP OR TUBING DEPTH IN WELL (feet): 138	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) N	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-222	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-223	SAMPLE ID: MW-223	DATE: 3.25.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 10 feet to 15 feet	STATIC DEPTH TO WATER (feet): 6.63	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	PURGING INITIATED AT: 1028	PURGING ENDED AT: 1053	TOTAL VOLUME PURGED (gallons): ~~1.47~~ 1.55 AC

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1033	0.5	0.5	0.07	6.90	6.85	23.87	824	2.05	4.67	clear	none	121.8
1041	0.21	0.71	0.07	6.93	6.85	23.88	827	0.64	2.94	Colorless	noted	106.7
1044	0.21	0.92	0.07	6.93	6.80	23.84	828	0.44	4.18	↓	↓	104.3
1047	0.21	1.13	0.07	6.92	6.84	23.87	832	0.31	2.53			96.8
1050	0.21	1.34	0.07	6.92	6.81	23.94	836	0.25	2.53			90.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

10.58

SAMPLED BY (PRINT) / AFFILIATION: John Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 10.58 AC	SAMPLING ENDED AT: 1110
PUMP OR TUBING DEPTH IN WELL (feet): 12'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-223	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS: Needs 2 bolts. Needs lock on J plug.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former ABC Facility		SITE LOCATION: Tallevast FL	
WELL NO: MW-224	SAMPLE ID: MW-224		DATE: 3-25-09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 0.187	WELL SCREEN INTERVAL DEPTH: 25 feet to 30 feet	STATIC DEPTH TO WATER (feet): 7.15'	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 60' feet) + gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5'	PURGING INITIATED AT: 1125	PURGING ENDED AT: 1143 1144	TOTAL VOLUME PURGED (gallons): 1.07

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1132	0.35	0.35	0.06	9.83	6.90	27.15	1763	0.31	2.25	clear	none	-77.8
1135	0.18	0.53	↓	10.44	6.99	26.82	1761	0.71	1.63	Colorless	Noted	-63.0
1138	↓	0.71	↓	10.80	7.00	26.97	1740	1.37	1.11	↓	↓	-60.0
1141		0.89		11.30	7.02	27.08	1735	1.55	1.32			-54.0
1144	↓	1.07	↓	11.58	6.99	26.94	1727	1.47	1.76	↓	↓	-47.7

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1144	SAMPLING ENDED AT: 1150
PUMP OR TUBING DEPTH IN WELL (feet): 27.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N NA	TUBING Y (N) replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-224	4	CG	40mL	HCl	—	—	8260B +	RFPP	100
						AC	~~8260BSIM~~		
							8260CSIM/D		

REMARKS: Needs 2 bolts. Needs locken plug.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-225	SAMPLE ID: MW-225	DATE: 3.25.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 6.52	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	PURGING INITIATED AT: 0912	PURGING ENDED AT: 1001	TOTAL VOLUME PURGED (gallons): 1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0940	1.1	1.1	0.02	12.67	6.94	23.18	1447	2.04	1.13	clear	none	60.6
0943	0.06	1.16	0.02	12.90	6.97	23.43	1457	1.81	4.22	Colorless	noted	56.4
0946	0.06	1.22	0.02	13.22	7.02	23.92	1464	1.56	1.45			52.0
0949	0.06	1.28	0.02	13.61	6.99	24.15	1472	1.25	1.79			47.3
0952	0.06	1.34	0.02	13.90	6.99	24.33	1477	1.04	1.38			42.9
0955	0.06	AC 1.3 TAO	0.02	14.65	6.98	24.56	1484	AC 2.05 0.71	2.05			35.9
0958	0.06	1.46	0.02	15.10	7.03	24.63	1487	0.57	1.53			32.7
1001	0.06	1.52	0.02	15.40	7.06	24.63	1488	0.54	1.58			30.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1002	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): 42.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) X NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-225	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS: Needs 2 bolts. needs AC ~~dolphin~~ lock for J-plug. Pump on slowest possible speed to still produce any flow.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-226	SAMPLE ID:	MW-226	DATE: 3/25/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	90 feet to 100 feet	7.96	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 105' feet) + 0.25 gallons = .39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
95'	95'	1035	1048	.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1042	.40	.40	0.65	8.38	7.23	25.15	1165	0.20	6.03	clear	slight	-106.5
1045	.15	.55		8.37	7.22	25.18	1170	0.20	4.72			-109.4
1048	.15	.70		8.37	7.22	25.16	1178	0.24	4.67			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
S. Leverette /ARCADIS		1049	1053

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
95'	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-226	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

* Note = Needs - Vault cover bolts
needs - dolphin lock
needs - Red well "ID" label

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-227	SAMPLE ID: MW-227	DATE: 3-24-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 9.12	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 150 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 1529	PURGING ENDED AT: 1558	TOTAL VOLUME PURGED (gallons): 1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1540	0.80	0.80	0.04	12.36	7.32	26.97	1023	0.30	1.53	clear	none	-104.7
1543	0.12	0.92	0.04	12.84	7.30	26.69	1017	0.24	1.09	color less		-106.1
1546	0.12	1.04	0.02	13.20	7.30	26.91	1019	0.22	1.29			-102.8
1549	0.12	1.16	0.02	13.41	7.32	27.33	1027	0.28	1.47			-104.4
1552	0.12	1.28	0.02	13.65	7.33	27.62	1033	0.36	1.41			-105.6
1555	0.12	1.40	0.02	13.92	7.33	27.74	1037	0.27	1.40			-112.0
1558	0.12	1.52	0.02	14.00	7.33	27.80	1040	0.28	1.73			-113.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Steve Leverette Army Corps /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1558	SAMPLING ENDED AT: 1602
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) Y NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-227	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: * note = Pump was on lowest setting * Need 2 bolts

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-228	SAMPLE ID:	MW-228	DATE: 3.26.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	98 feet to 108 feet	13.82	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = .39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
103	103	830	905	1.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
8:50	1.2	1.2	.06	21.02	7.37	23.25	713	.67	1.63	clear	none	
8:53	.12	1.32	.06	21.02	7.39	23.27	710	.63	1.28			
8:56	.12	1.44	.06	22.12	7.42	23.28	710	.44	1.28			
8:59	.12	1.56	.06	22.40	7.42	23.26	709	.40	1.38			-191.5
9:02	.12	1.68	.06	22.90	7.44	23.22	707	.43	1.38			-194.3
9:05	.12	1.80	.06	23.22	7.45	23.19	706	.47	1.42	↓	↓	-194.7
~~9:08~~ SK			~~.06~~ SK									

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK / CW /ARCADIS	Sara Kinch	9:10	9:20

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
103	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-228	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: 70°, shaded area, next to pond w/ fountain

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-229	SAMPLE ID: MW-229	DATE: 4/1/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 17.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 9.60	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 0.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1312	PURGING ENDED AT: 1327	TOTAL VOLUME PURGED (gallons): 0.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1317	0.3	0.3	0.06	9.93	5.27	27.7	642	0.61	18.0	Clear	NONE	-272
1322	0.3	0.6	↓	9.93	5.20	27.7	629	0.66	16.4	↓	↓	-271
1327	0.3	0.9	↓	9.93	5.18	27.7	625	0.54	14.9	↓	↓	-260

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1 .G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Leverette / ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1328	SAMPLING ENDED AT: 1338
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-229	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-229	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-229	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-230	SAMPLE ID:	MW-230	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	31 feet to 36 feet	9.89	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
33.5	33.5	1347	1402	0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1352	0.32	0.32	0.06	10.21	6.97	27.5	645	0.67	4.11	Clear	None	-126
1357	0.32	0.64	↓	10.21	6.98	27.5	641	0.49	3.83	↓	↓	-125
1402	0.32	0.96	↓	10.21	6.99	22.4	639	0.47	3.50	↓	↓	-122

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R.Kontos, S.Leverette /ARCADIS		1403	1412

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
33.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-230	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-230	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-230	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-231	SAMPLE ID: MW-231	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 97 feet to 107 feet	STATIC DEPTH TO WATER (feet): 24.31	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 102	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 102	PURGING INITIATED AT: 1426	PURGING ENDED AT: 1444	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1432	0.4	0.4	0.06	24.80	7.23	26.7	816	0.26	6.06	Clear	Slight	-177
1438	0.4	0.8	↓	24.80	7.19	26.8	821	0.27	5.00	↓	↓	-185
1444	0.4	1.2	↓	24.80	7.16	26.8	824	0.22	3.76	↓	↓	-191

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1. G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Lemmette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: 1455
PUMP OR TUBING DEPTH IN WELL (feet): 102	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-231	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-231	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-231	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-232	SAMPLE ID: MW-232	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 98 feet to 108 feet	STATIC DEPTH TO WATER (feet): 17.73	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110' feet) + 0.25 gallons = ~~.65~~ .40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103'	PURGING INITIATED AT: 1512	PURGING ENDED AT: 1536	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
	SL	SL										
1518	~~.40~~ 0.4	~~.70~~ 0.40	0.06	18.25	7.34	26.0	624	0.29	34.7	s/cloudy	slight	-314.4
1524	~~.40~~ 0.4	~~1.10~~ 0.80		18.25	7.27	25.9	629	0.27	18.0	slight		-234.1
1530	~~.90~~ 0.4	~~2.10~~ 1.20		18.25	7.22	25.9	631	0.32	9.82	clear		-207.4
1536	0.4	1.60		18.25	7.16	25.8	635	0.35	3.69			-206.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette R. Kontas /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1537	SAMPLING ENDED AT: 1552
PUMP OR TUBING DEPTH IN WELL (feet): 103	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-232	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-232	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-232	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

0930

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-233	SAMPLE ID: MW-233	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 90 feet to 100 feet	STATIC DEPTH TO WATER (feet): 22.28	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 105 feet) + 0.25 gallons = 0.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 95	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 95	PURGING INITIATED AT: 0942	PURGING ENDED AT: 0959	TOTAL VOLUME PURGED (gallons): 1.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0947	0.9	0.4	0.08	25.76	7.41	25.73	6.57	0.17	76.2	Yes	moderate	-155.6
0950	0.24	0.64	0.08	25.96	7.41	25.90	644	0.16	22.2	No		-164.3
0953	0.24	0.88	0.08	26.22	7.42	26.14	640	0.14	12.2			-164.3
0956	0.24	1.12	0.08	27.75	7.43	26.21	637	0.14	7.96			-164.8
0959	0.24	1.36	0.08	28.32	7.43	26.30	637	0.13	4.73			-164.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holtan /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew Sedor / C Holtan	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 95	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-233	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-233	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-233	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-234	SAMPLE ID:	MW-234	DATE: 4/13/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	15 feet to 20 feet	5.19	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
17.5	17.5	14:16	14:36	1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) ORP
14:24	0.64	0.64	0.08	6.07	6.37	27.62	511	0.62	19.9	No	No -76.2
14:27	0.24	0.88	0.08	6.07	6.64	27.64	538	0.39	16.2	No	No -93.2
14:30	0.24	1.12	0.08	6.07	6.64	27.63	559	0.28	13.4	No	No -96.9
14:33	0.24	1.36	0.08	6.07	6.71	27.60	570	0.27	11.6	No	No -99.7
14:36	0.24	1.6	0.08	6.07	6.71	27.73	575	0.21	9.21	No	No -100.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	14:37	14:57

PUMP/OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
17.5	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-234	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-234	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-234	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-235	SAMPLE ID: MW-235	DATE: 4/13/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 35 feet to 40 feet	STATIC DEPTH TO WATER (feet): 13.40	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1415	PURGING ENDED AT: 1432	TOTAL VOLUME PURGED (gallons): 1.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1420	0.5	0.5	0.1	15.16	7.37	25.80	754	0.68	16.6	clear	none	-247
1423	0.3	0.8	0.1	15.79	7.33	25.75	751	0.39	5.80	↓	↓	-262
1426	0.3	1.1	0.1	16.19	7.32	25.70	752	0.39	7.15			-268
1429	0.3	1.4	0.1	16.23	7.31	25.75	752	0.39	3.64			-278
1432	0.3	1.7	0.1	16.25	7.30	25.82	752	0.40	2.31			-284

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK DAVIDSON /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1433	SAMPLING ENDED AT: 1445

PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-235	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-236	SAMPLE ID:	MW-236	DATE: 4/14/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.5	0.1875	90 feet to 100 feet	18.84	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
95	95	08:32	08:56	1.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
08:40	0.56	0.56	0.07	19.19	7.29	24.33	603	0.31	91.6	Gray	No	-231.8
08:44	0.28	0.84	0.07	19.19	7.30	24.36	611	0.26	39.2	Gray	No	-235.9
08:47	0.21	1.05	0.07	19.19	7.31	24.36	612	0.23	28.7	Gray	No	-241.1
08:50	0.21	1.26	0.07	19.19	7.32	24.37	612	0.22	19.5	No	No	-243.3
08:53	0.21	1.47	0.07	19.19	7.33	24.38	612	0.22	15.9	No	No	-246.0
08:56	0.21	1.68	0.07	19.19	7.33	24.40	612	0.22	12.4	No	No	-249.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	08:57	09:05

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
95	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-236	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-237	SAMPLE ID: MW-237	DATE: 4/14/2009

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 16.81	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 160 feet) + 0.25 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 09:23	PURGING ENDED AT: 10:00	TOTAL VOLUME PURGED (gallons): 2.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
										GRAY		
09:45	1.32	1.32	0.06	19.01	7.50	24.51	590	0.24	124	~~No~~ RT	No	-259.3
09:48	0.18	1.5	0.06	19.01	7.49	24.53	590	0.26	39.5	Gray	No	-259.4
09:51	0.18	1.68	0.06	19.01	7.49	24.55	590	0.26	22.8	No	No	-261.5
09:54	0.18	1.84	0.06	19.01	7.49	24.57	590	0.28	8.41	No	No	-261.0
09:57	0.18	2.02	0.06	19.01	7.48	24.58	591	0.32	6.10	No	No	-261.0
10:06	0.18	2.2	0.06	19.01	7.48	24.59	591	0.35	5.09	No	No	-261.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 10:01	SAMPLING ENDED AT: 10:09
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-237	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

09:35 T. Dessenburg arrives onsite
09:42 T. Dessenburg leaves site

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-238	SAMPLE ID:	MW-238	DATE: 4/14/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2.5	0.1875	280 feet to 300 feet	12.05	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 305 feet) + 0.25 gallons = 0.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
290	290	0850	0925	2.45

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0910	1.4	1.4	0.07	17.62	7.79	24.45	873	0.55	4.78	clear	none	-257
0915	0.35	1.75	0.07	18.75	7.80	24.49	895	0.50	2.15	↓	↓	-256
0920	0.35	2.10	0.07	18.92	7.81	24.54	899	0.52	3.57			-250
0925	0.35	2.45	0.07	19.02	7.81	24.53	898	0.51	2.97			-253

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
MARK DAVIDSON /ARCADIS		0926	0938

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
290	PE	N Filtration Equipment Type: N\A	N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-238	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-239	SAMPLE ID:	MW-239	DATE: 3.23.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	98 feet to 108 feet	1933	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 125 feet) + 0.25 gallons = .43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
103	103	10:02	10:33	1.55

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:29	1.35	1.35	.05	20.23	7.32	22.08	643	.36	4.93	NONE	NONE
10:31	.1	1.45	.05	20.19	7.27	22.05	642	.32	4.84	↓	↓
10:33	.1	1.55	.05	20.18	7.28	22.05	642	.30	3.83	↓	↓

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SKlimek /ARCADIS	Kim Klimek	10:38	1045

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
103	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
~~MW-239~~	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-239	1	PE	125 mL	None	collected	–	Bromide 300	APP	100
~~MW-239~~	~~1~~	~~PE~~	~~250 mL~~	~~HNO3~~	–	–	6010B	APP	100
MW-239	1	PE	250 mL	HNO3	collected	–	6010B Dissolved Fe, Mn	APP	100
MW-239	1	PE	250 mL	HNO3	collected	–	6010B Total Fe, Mn	APP	100
MW-239	4	CG	40 mL	HCL	collected.	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0905

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-240	SAMPLE ID: MW-240	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 156.5 feet to 166.5 feet	STATIC DEPTH TO WATER (feet): 16.73	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 166.5 feet) + 0.25 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 161.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 161.5	PURGING INITIATED AT: 0913	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (gallons): 1.51

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0920	0.99	0.49	0.07	20.45	7.54	25.70	650	0.32	6.21	NO	Moderate	-135.2
0923	0.21	0.70	0.07	21.04	7.54	25.71	650	0.26	4.95		slight	-142.3
0926	0.21	0.91	0.07	21.87	7.55	25.78	650	0.25	6.49			-148.5
0929	0.21	1.12	0.07	22.35	7.54	25.76	650	0.26	7.38			-133.5
0932	0.21	1.33	0.07	22.74	7.55	25.75	650	0.24	10.18			-148.9
0935	0.21	1.51	0.07	23.15	7.55	25.75	650	0.29	17.0			-148.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedor / C Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Sedor / C Holton	SAMPLING INITIATED AT: 0940	SAMPLING ENDED AT: 0944
PUMP OR TUBING DEPTH IN WELL (feet): 161.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-240	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-241	SAMPLE ID: MW-241	DATE: 3/25/09

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 281 feet to 301 feet	STATIC DEPTH TO WATER (feet): 6.79	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X ~~350~~ 350' feet) + 0.25 gallons = .68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 291'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 291'	PURGING INITIATED AT: 0935	PURGING ENDED AT: 0951	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) ~~umhos/cm~~ or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORD
0945	.70	.70	.070	7.08	7.65	21.04	745	0.97	14.2	clear	slight	-118.5
0948	.15	.85		7.10	7.69	21.05	742	0.99	12.0			-133.0
0951	.15	1.0		7.10	7.66	21.08	735	0.95	17.0			

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1. 3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0952	SAMPLING ENDED AT: 0956
PUMP OR TUBING DEPTH IN WELL (feet): 291'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) (Y) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-241	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:
* Small Black Particles present *

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-242	SAMPLE ID: MW-242	DATE: 3/26/09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 20 feet to 25 feet	STATIC DEPTH TO WATER (feet): 5.08	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5'	PURGING INITIATED AT: 1304	PURGING ENDED AT: 1324	TOTAL VOLUME PURGED (gallons): 1.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1309	.35	.35	.07	5.68	7.38	25.00	421	0.23	35.6	clear	none	-220
1314	.35	.70	↓	5.68	7.38	25.10	440	0.20	19.4			-108.1
1319	.35	1.05		5.68	7.36	25.01	444	0.18	16.2			-129.3
1324	.35	1.40		5.68	7.30	25.00	448	0.17	14.3	↓	↓	

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S.Leverette A.Kotos/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1325	SAMPLING ENDED AT: 1332
PUMP OR TUBING DEPTH IN WELL (feet): 22.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type:	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-242	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-242	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-242	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

* Note - Need vault lid bolts.
* Note - Dusty Conditions

Hach: Fe = 1.21 mg/L
RD 3/26/09

REMARKS:
* Note - Small Brown debris present *

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-243	SAMPLE ID:	MW-243	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	33 feet to 38 feet	14.64	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
35.5	35.5	1340 1446	1420	2.56

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1345	0.32	0.32	0.064	14.90	8.64	26.0	491	0.59	105.4	cloudy	slight	-133
1350	0.32	0.64		14.90	8.30	25.9	559	0.29	35.0	cloudy		-175
1355	0.32	0.96		14.90	8.06	25.9	628	0.10	15.9	clear		-233
1400	0.32	1.28		14.90	7.82	26.0	669	0.12	26.3			-289
1405	0.32	1.60		14.90	7.63	26.0	757	0.16	19.54			-320
1410	0.32	1.92		14.90	7.53	26.0	808	0.19	9.96			-344
1415	0.32	2.24		14.90	7.49	25.9	815	0.19	5.06			-352
1420	0.32	2.56		14.90	7.45	25.9	826	0.19	5.90			-332

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T..G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Lavarette / ARCADIS		1421	1430

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
35.5	PE	Y	0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-243	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-243	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-243	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:
* Dusty Conditions

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-244	SAMPLE ID: MW-244	DATE: 3-26-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 106 feet to 116 feet	STATIC DEPTH TO WATER (feet): 15.95	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 130 feet) + 0.25 gallons = 0.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 111	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 111	PURGING INITIATED AT: 1438	PURGING ENDED AT: 1508	TOTAL VOLUME PURGED (gallons): 2.58

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1443	0.43	0.43	0.08	16.39	7.68	28.3	806	0.54	19.2	Clear	Slight	-151
1448	0.43	0.86	↓	16.39	7.59	28.3	808	0.25	28.6	↓	↓	-146
1453	0.43	1.29		16.39	7.48	28.3	809	0.22	18.3			-183
1458	0.43	1.72		16.39	7.48	28.3	808	0.20	19.1			-128
1503	0.43	2.15		16.39	7.42	28.3	804	0.14	16.6			-185
1508	0.43	2.58	↓	16.39	7.40	28.4	802	0.12	17.7	↓	↓	-187

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos S. Leverette/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1609	SAMPLING ENDED AT: 1512
PUMP OR TUBING DEPTH IN WELL (feet): 111	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-244	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-245	SAMPLE ID: MW-245	DATE: 3/27/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 17 feet to 22 feet	STATIC DEPTH TO WATER (feet): 7.01	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19.5'	PURGING INITIATED AT: 0915	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (gallons): 1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0920	.35	.35	.064	7.33	6.83	23.9	965	0.71	7.60	Clear	NONE	-314
0925	.35	.70	↓	7.33	6.82	24.2	975	0.74	5.93	↓	↓	-328
0930	.35	1.05		7.33	6.81	24.2	976	0.63	4.76			-338
0935	.35	1.40		7.33	6.80	24.3	976	0.57	4.11			-341

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Lemieux R. Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0936	SAMPLING ENDED AT: 0940
PUMP OR TUBING DEPTH IN WELL (feet): 19.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-245	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-246	SAMPLE ID: MW-246	DATE: 3/27/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 14.31	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50' feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5'	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0905	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0855	.35	.35	.064	16.70	6.98	24.59	1078	0.61	2.90	clear	moderate	-314.8
0900	.35	.70		16.70	6.99	24.30	1084	0.59	2.26	↓	↓	-325.4
0905	.35	1.05	↓	16.70	6.99	24.56	1091	0.57	1.99			-345.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S.Lavesette R.Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0906	SAMPLING ENDED AT: 0910
PUMP OR TUBING DEPTH IN WELL (feet): 42.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-246	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-247	SAMPLE ID: MW-247	DATE: 3/27/09	

PURGING DATA

WELL DIAMETER (inches): 2.5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 98 feet to 108 feet	STATIC DEPTH TO WATER (feet): 17.12	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110' feet) + 0.25 gallons = .40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103'	PURGING INITIATED AT: 815	PURGING ENDED AT: 833	TOTAL VOLUME PURGED (gallons): 1.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
821	.40	.40	.066	17.66	7.27	24.52	776	0.69	9.24	clear	moderate	-339.4
827	.40	.80		17.66	7.27	24.50	766	0.67	5.64			-332.2
833	.40	1.20		17.66	7.26	24.55	760	0.63	4.12			-330.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette R. Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 834	SAMPLING ENDED AT: 838
PUMP OR TUBING DEPTH IN WELL (feet): 103'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-247	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-248	SAMPLE ID: MW-248	DATE: 3.25.09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 103 feet to 113 feet	STATIC DEPTH TO WATER (feet): 19.33	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 110 feet) + 0.25 gallons = 0.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 108'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 108'	PURGING INITIATED AT: 1434	PURGING ENDED AT: 1510	TOTAL VOLUME PURGED (gallons): 2.32

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) ~~umhos/cm~~ or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1456	1.6	1.6	0.03	20.07	7.36	24.86	544	1.28	3.31	clear	none noted	-26.5
1459	0.24	1.84	0.08	20.08	7.35	24.69	542	0.38	1.82	colorless		-30.7
1502	0.24	2.08	0.08	20.09	7.34	24.62	541	0.25	1.48	↓	↓	-34.3
1505	0.24	2.32	0.08	20.10	7.34	24.55	539	0.18	1.39			-38.4

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1520	SAMPLING ENDED AT: 1530
PUMP OR TUBING DEPTH IN WELL (feet): 108'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (Y) Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um
FIELD DECONTAMINATION: PUMP(Y/N) X NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N for one bottle only	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-248	1	PE	250 mL	HNO3	–	–	6010B Dissolved Fe, Mn	APP	100
MW-248	1	PE	250 mL	HNO3	–	–	6010B Total Fe, Mn	APP	100
MW-248	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-249	SAMPLE ID:	MW-249	DATE: 4/13/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	88 feet to 98 feet	15.49	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 105 feet) + 0.25 gallons = 0.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
93	93	15:39	15:58	1.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:46	0.7	0.7	0.10	15.79	6.35	25.79	~~0.87~~ AT 322	0.89	1.66	Yellow	No ORP -118.9
15:49	0.3	1	0.10	15.79	6.47	25.48	319	0.59	1.52	Yellow	No -135.1
15:52	0.3	1.3	0.10	15.79	6.54	25.66	318	0.37	0.67	Yellow	No -151.8
15:55	0.3	1.6	0.10	15.79	6.56	25.70	319	0.22	0.78	Yellow	No -160.2
15:58	0.3	1.9	0.10	15.79	6.56	25.70	318	0.25	0.81	Yellow	No -165.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Ryan Tuttle /ARCADIS	Ryan Tuttle	15:59	16:11

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
93	PE	N Filtration Equipment Type: N\A	N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-249	AT ~~4~~ 8	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

Dup-16 collected

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida
WELL NO:	MW-250	SAMPLE ID: MW-250	DATE: 4/15/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	90 feet to 100 feet	17.47	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
95	95	1020	1039	1.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or ~~uS/cm~~	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1030	0.8	0.8	0.08	17.73	7.37	24.31	793	0.43	42	clear	none	-164
1033	0.24	1.04	0.08	17.73	7.36	24.31	788	0.60	18.7	↓	↓	-184
1036	0.24	1.28	0.08	17.73	7.35	24.27	786	0.34	17.4			-179
1039	0.24	1.52	0.08	17.73	7.34	24.27	785	0.29	15.6			-188

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
MARK DAVIDSON /ARCADIS		1040	1052

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
95	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-250	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

TOTAL Depth 100.11

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-251	SAMPLE ID:	MW-251	DATE: 3/31/2009

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 380 feet to 400 feet	STATIC DEPTH TO WATER (feet): 17.59	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 400 feet) + 0.25 gallons = 0.81 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 390	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 390	PURGING INITIATED AT: 12:36	PURGING ENDED AT: 13:42	TOTAL VOLUME PURGED (gallons): 2.64

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:57	0.84	0.84	0.04	16.59	7.35	28.62	1310	0.27	11.1	Clear	No ORP -218.0
13:17	0.8	1.64	0.04	16.59	7.36	28.69	1326	0.20	7.39	Clear	No -263.6
13:36	0.76	2.4	0.04	16.59	7.35	28.84	1332	0.13	5.25	Clear	No -246.7
13:39	0.12	2.52	0.04	16.59	7.35	29.02	1338	0.11	4.39	Clear	No -241.3
13:42	0.12	2.64	0.04	16.59	7.35	28.90	1334	0.11	3.98	Clear	No -243.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1 .G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 13:43	SAMPLING ENDED AT: 14:03
PUMP OR TUBING DEPTH IN WELL (feet): 390	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-251	12 + MT	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

MS/MSD collected

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: MW-252	SAMPLE ID: MW-252	DATE: 3-24-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 145 feet to 155 feet	STATIC DEPTH TO WATER (feet): 23.89	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (155 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 155 feet) + 0.25 gallons = 0.46 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 150	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 150	PURGING INITIATED AT: 1623	PURGING ENDED AT: 1713	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1633	0.5	0.5	0.05	24.60	7.43	28.0	687	0.28	230	cloudy	NONE	-235
1643	0.5	1.0		24.60	7.32	27.5	683	0.29	137	cloudy	None	-230
1653	0.5	1.5		24.60	7.26	26.4	668	0.22	18.7	Clear	None	-266
1703	0.5	2.0		24.60	7.24	26.4	666	0.21	18.3	↓	↓	-240
1713	0.5	2.5	↓	24.60	7.24	26.2	662	0.19	16.2	↓	↓	-260

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, J. Kerstetter/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1714	SAMPLING ENDED AT: 1733
PUMP OR TUBING DEPTH IN WELL (feet): 150	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y Filtration Equipment Type: Disposable Filter	FILTER SIZE: 0.45 um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-252	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
MW-252	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
MW-252	3	CG	40 mL	HCL	–	--	1666	RFPP	100
MW-252	3	CG	40 mL	HCL	–	--	8260B	RFPP	100
MW-252	3	CG	40 mL	None	–	--	8260B	RFPP	100
MW-252	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: MW-253	SAMPLE ID: MW-253	DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 100 feet to 110 feet	STATIC DEPTH TO WATER (feet): 20.59	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 105 feet) + 0.25 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 105	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 105	PURGING INITIATED AT: 1534	PURGING ENDED AT: 1559	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1539	0.4	0.4	0.08	21.22	6.65	26.4	1239	0.45	205	Cloudy	none	-265
1544	0.4	0.8	↓	21.22	6.70	26.0	1231	0.44	16.9	clear	↓	-268
1549	0.4	1.2		21.22	6.71	25.7	1212	0.45	15.5	↓		-267
1554	0.4	1.6		21.22	6.71	25.6	1197	0.44	10.88			-275
1559	0.4	2.0	↓	21.22	6.75	25.8	1201	0.35	8.31	↓	↓	-263

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, T. Kerstetter / ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1615
PUMP OR TUBING DEPTH IN WELL (feet): 105	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-253	1	PE	1 L	None	–	–	SM 2540C	APP	100
MW-253	1	PE	125 mL	None	–	–	Bromide 300	APP	100
MW-253	1	PE	250 mL	HNO3	–	–	6010B	APP	100
MW-253	3	CG	40 mL	HCL	–	–	1666	RFPP	100
MW-253	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
MW-253	3	CG	40 mL	None	–	–	8260B	RFPP	100
MW-253	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

annual
SVS
total Mt
dissolved Mt

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	MW-254 (MW-BT-1)	SAMPLE ID:	MW-254 (MW-BT-1)	DATE: 3-19.09

PURGING DATA ~~8.28~~ @1453

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2"	0.1875	24 feet to 29 feet	8.01	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (29.5 feet - feet) X gallons/foot = ~~2.3~~ gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
27	27	1510	1610	~~2.3~~ 2.66 JK

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) ~~umhos/cm~~ or uS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1552	2.3	2.3	0.06	8.28	5.15	28.79	939	.15	7.15	clear	none	7.0
1555	0.18	2.48	0.06	8.21	5.16	28.76	941	.14	6.14	colorless	↓	5.5
1558	0.18	2.66	0.06	8.21	5.17	28.70	940	.14	6.90	↓		3.9

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
CG INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Amy Cadd Jon Kerstetter /ARCADIS		1614	1650

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
27	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ N TUBING(Y/N replaced) (N) DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-254 (MW-BT-1)	1	PE	1 L	None	--	--	SM 2540C	APP	100
MW-254 (MW-BT-1)	1	PE	125 mL	None	--	--	Bromide 300	APP	100
MW-254 (MW-BT-1)	1	PE	250 mL	HNO3	--	--	6010B	APP	100
MW-254 (MW-BT-1)	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
MW-254 (MW-BT-1)	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
MW-254 (MW-BT-1)	3	CG	40 mL	HCL	--	--	1666	RFPP	100
MW-254 (MW-BT-1)	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
MW-254 (MW-BT-1)	3	CG	40 mL	None	--	--	8260B	RFPP	100
MW-254 (MW-BT-1)	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: DW-1	SAMPLE ID: DW-1	DATE: 4-2-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 82 feet to 92 feet	STATIC DEPTH TO WATER (feet): 16.74	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (105 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = .39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 87	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 87	PURGING INITIATED AT: 1309	PURGING ENDED AT: 1349	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
13:20	.77	.77	.07							none	none	
13:30	.15	.92	.05	20.26	8.82	30.30	267	.24	13.0			-203.4
13:33	.15	1.07	.05	20.33	8.65	30.30	302	.24	7.61			-227.6
13:36	.15	1.22	.05	20.39	8.34	30.31	377	.23	4.46			-231.1
13:39	.15	1.37	.05	20.44	8.00	30.30	439	.23	4.93			-230.7
13:42	.15	1.52	.05	20.49	7.83	30.38	472	.23	5.59			-237.8
13:45	.15	1.67	.05	20.53	7.74	30.29	499	.25	8.04			-252.7
13:48	.15	1.82	.05	20.56	7.67	30.25	518	.26	7.34			-259.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kinch	SAMPLING INITIATED AT: 13:55	SAMPLING ENDED AT: 14:00
PUMP OR TUBING DEPTH IN WELL (feet): 87	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DW-1	3	CG	40 mL	HCL	–	–	1666	RFPP	100
DW-1	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
DW-1	3	CG	40 mL	None	–	–	8260B	RFPP	100
DW-1	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

MS/MSD

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: EXU-1 (EW-101)	SAMPLE ID: EXU-1 (EW-101)		DATE: 3/24/09

PURGING DATA

WELL DIAMETER (inches): 5'	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet): 6.65	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 75' feet) + 0.25 gallons = .35 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~22'2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.5'	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1201	TOTAL VOLUME PURGED (gallons): .85

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1152												
~~1155~~	.40	.40	.070	6.80	5.37	27.66	510	0.41	3.08	clear	moderate	83.6
1155	.15	.55		6.81	5.36	27.21	505	0.38	3.70			83.4
1158	.15	.70		6.81	5.35	27.25	504	0.36	3.40			85.7
1201	.15	.85		6.82	5.35	27.35	506	0.27	3.22			88.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1202	SAMPLING ENDED AT: 1217
PUMP OR TUBING DEPTH IN WELL (feet): 22.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um
FIELD DECONTAMINATION: PUMP(Y/N) (N)	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~EXU-1 (EW-101)~~	~~1~~	~~PE~~	~~1 L~~	~~None~~	~~--~~	~~--~~	~~8260B~~	~~APP~~	100
EXU-1 (EW-101)	1	PE	125 mL	None	--	--	Bromide 300 •	APP	100
EXU-1 (EW-101)	1	PE	250 mL	HNO3	--	--	6010B •	APP	100
EXU-1 (EW-101) A	3	CG	40 mL	HCL	--	--	1666	~~APP~~ RFPP	100
EXU-1 (EW-101) A	3	CG	40 mL	HCL	--	--	8260B	~~APP~~ RFPP	100
EXU-1 (EW-101) A	3	CG	40 mL	None	--	--	8260B	~~APP~~ RFPP	100
EXU-1 (EW-101)	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

4 RFPP VOAs
6010B Metals
Bromide
VIC
SVS

Form FD 9000-24

GROUNDWATER SAMPLING LOG

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	EW-102	SAMPLE ID:	EW-102	DATE: 3/25/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 31 feet to 36 feet	STATIC DEPTH TO WATER (feet): 11.84	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 56 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33.5	PURGING INITIATED AT: 1005	PURGING ENDED AT: 1021	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1012	.7	.7	.1	11.99	6.55	23.73	1.063	0.70	1.32	NO	slight	-85.7
1015	.3	1.0	.1	11.99	6.59	23.77	1.055	0.42	1.32	↓	↓	-90.8
1018	.3	1.3	.1	11.99	6.61	23.90	1.047	0.35	1.83			-98.2
1021	.3	1.6	.1	11.99	6.63	23.86	1.033	0.28	0.62			-105.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1023	SAMPLING ENDED AT: 1039
M. Sedor JCook /ARCADIS	Matthew D Sedor		

PUMP OR TUBING DEPTH IN WELL (feet): 33.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
EW-102	1	PE	500ml	None	–	–	SM 2540C	APP	100
EW-102	2	PE	125 mL	None	–	–	Bromide 300	APP	100
EW-102	2	PE	250 mL	HNO3	–	–	6010B	APP	100
EW-102	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
	3	CG	40ml	HCl	–	–	8260B	APP	100
	3	CG	40ml	None	–	–	8260B	APP	100
	2	CG	40ml	HCL	–	–	8260B	APP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	EW-103	SAMPLE ID:	EW-103	DATE: 3-20-9

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
5	0.1875	5 feet 20 feet	8.12	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (25 feet - 8.12 feet) X 1.02 gallons/foot = 17.2 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X · feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
12	12	1055	1302	18.32

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1254	17.2	17.2	.14	8.98	6.30	23.49	415	.22	30.1	clear	none
1256	.28	17.48	.14	8.98	6.27	23.46	414	.20	20.1	wtr	
1258	.28	17.76	.14	8.98	6.25	23.61	414	.19	19.3	orange	
1300	.28	18.04	.14	8.97	6.23	23.64	413	.18	17.8	Tint	
1302	.28	18.32	.14	8.97	6.20	23.68	413	.17	18.0	↓	↓

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Sara Kimak /ARCADIS	Sara Kimak	1310	1330

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: NA um
12	PE	Filtration Equipment Type: NA	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EW-103	1	PE	1 L	None	–	–	SM 2540C	APP	100
EW-103	1	PE	125 mL	None	–	–	Bromide 300	APP	100
EW-103	1	PE	250 mL	HNO3	–	–	6010B	APP	100
EW-103	3	CG	40 mL	HCL	–	–	1666	RFPP	100
EW-103	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
EW-103	3	CG	40 mL	None	–	–	8260B	RFPP	100
EW-103	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: concrete work outside building #3 Windy
MS/MSD collected for IRAP & UIC

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	EW-104	SAMPLE ID:	EW-104	DATE: 3-23-09

PURGING DATA

W. taken 5am West Edge of vault.

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
5	0.1875	26 feet to 31 feet	9.54	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (36 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 35 feet) + 0.25 gallons = .30 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
28.5	28.5	1443	1500	1.02

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or ~~µS/cm~~	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1456	.78	.78	.06	10.17	5.57	23.10	526	.48	1.97	clear	none
1458	.12	.90	.06	10.17	5.57	23.09	526	.46	2.21	w/debris	↓
1500	.12	1.02	.06	10.17	5.56	23.09	526	.45	2.13	debris	

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
T.. .G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK /ARCADIS		1510	1530

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
28.5	PE	N	N\A um

Filtration Equipment Type: N\A

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EW-104	1	PE	1 L	None	–	–	SM 2540C	APP	100
EW-104	1	PE	125 mL	None	–	–	Bromide 300	APP	100
EW-104	1	PE	250 mL	HNO3	–	–	6010B	APP	100
EW-104	3	CG	40 mL	HCL	–	–	1666	RFPP	100
EW-104	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
EW-104	3	CG	40 mL	None	–	–	8260B	RFPP	100
EW-104	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: EB-32309 @ collected here prior to sampling EW-104

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	EW-105	SAMPLE ID:	EW-105	DATE: 3/19/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
5	0.1875	5 feet to 25 feet	6.72	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (25 feet - 6.72 feet) X 1.02 gallons/foot = 18.64 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
~~8.72~~	9.32'	1450	1629	19.9

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1623	18.7	18.7	.20	7.32	5.55	29.05	470	0.13	0.95	clear	slight	-14.1
1626	.60	19.3		7.32	5.56	29.10	469	0.13	0.90			-14.4
1629	.60	19.9		7.32	5.56	29.12	470	0.14	0.82			-14.6

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Sedor, S. Laverett/ARCADIS	Matthew Sedor	1630	1635

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): (N)	FILTER SIZE: N\A um
9.32'	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (Y) # DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EW-105	2	PE	500mL 1 L	None	–	–	SM 2540C	APP	100
EW-105	1	PE	125 mL 250 mL	None	–	–	Bromide 300	APP	100
EW-105	2	PE	250 mL	HNO3	–	–	6010B	APP	100
EW-105	3	CG	40 mL	HCL	–	–	1666	RFPP	100
EW-105	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
EW-105	3	CG	40 mL	None	–	–	8260B	RFPP	100
EW-105	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	EW-106	SAMPLE ID:	EW-106	DATE: 3/24/09

PURGING DATA

WELL DIAMETER (inches):	5	TUBING DIAMETER (inches):	0.1875	WELL SCREEN INTERVAL DEPTH:	26 feet to 31 feet	STATIC DEPTH TO WATER (feet):	8.64	PURGE PUMP TYPE OR BAILER:	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (36 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = 0.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	28.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	28.5	PURGING INITIATED AT:	1232	PURGING ENDED AT:	1248	TOTAL VOLUME PURGED (gallons):	1.28

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1242	0.8	0.8	0.08	9.19	5.61	28.91	0.640	0.70	6.68	no	moderate	-33.7
1245	0.24	1.04	0.08	9.24	5.57	28.94	0.637	0.55	9.36	↓	slight	-35.0
1248	0.24	1.28	0.08	9.30	5.56	28.99	0.636	0.40	8.35	↓	↓	-41.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M Sedlor T Coody /ARCADIS	Matthew D Sedlor	1255	1310

PUMP OR TUBING DEPTH IN WELL (feet):	28.5	TUBING MATERIAL CODE:	PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
				Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EW-106	1	PE	1 L	None	–	–	SM 2540C	APP	100
EW-106	2	PE	125 mL	None	–	–	Bromide 300	APP	100
EW-106	2	PE	250 mL	HNO3	–	–	6010B	APP	100
EW-106	3	CG	40 mL	HCL	–	–	1666	RFPP	100
EW-106	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
EW-106	3	CG	40 mL	None	–	–	8260B	RFPP	100
EW-106	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

$\frac{1 c}{45 sec} \times \frac{19}{16 c} \times \frac{60 sec}{1 min}$

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: EW-107	SAMPLE ID: EW-107	DATE: 3-24-09

PURGING DATA

WELL DIAMETER (inches): 4" & 2" AC	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 7 feet to 27 feet	STATIC DEPTH TO WATER (feet): 6.00	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA (tubing removed after samples collected)	PURGING INITIATED AT: 0926	PURGING ENDED AT: 1012	TOTAL VOLUME PURGED (gallons): 2.72

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1000	2.0	2.0	0.6	6.12	5.99	25.24	278	1.52	2.97	clear	none	-77.0
1003	0.18	2.18	↓	6.12	5.96	25.19	278	0.73	3.15	colorless	noted	-78.6
1006	0.18	2.36		6.12	5.98	25.21	278	0.54	2.24	↓	↓	-79.0
1009	0.18	2.54		6.12	6.10	25.25	278	0.43	2.43			-104.3
1012	0.18	2.72		6.12	6.10	25.36	279	0.39	3.11			-101.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1014	SAMPLING ENDED AT: 1045
PUMP OR TUBING DEPTH IN WELL (feet): 17'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: NA um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~EW-107~~	~~1~~	~~PE~~	~~1 L~~	~~None~~	~~--~~	~~--~~	~~SM 2540C~~	APP	~~100~~
EW-107	1	PE	125 mL	None	--	--	Bromide 300	APP	100
EW-107	1	PE	250 mL	HNO3	--	--	6010B	APP	100
EW-107 A	3	CG	40 mL	HCL	--	--	1666	RFPP	100
EW-107 A	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
EW-107 A	3	CG	40 mL	None	--	--	8260B	RFPP	100
EW-107	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: EXL-1 (EW-108)	SAMPLE ID: EXL-1 (EW-108)	DATE: 3-20-09

PURGING DATA

taken 5cm mid point on north side & west

WELL DIAMETER (inches): 5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 40.5 feet	STATIC DEPTH TO WATER (feet): 13.46	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 855	PURGING ENDED AT: 926	TOTAL VOLUME PURGED (gallons): 3.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
918	2.5	2.5	.11	13.55	7.50	28.68	566	.18		none	yes
920	.18	2.68	.09	13.59	7.68	28.70	570	.19	1.96	Dsshave	
922	.18	2.86	.09	13.59	7.80	28.64	569	.30	.91	black cobris	
924	.18	2.98	.09	13.59	7.84	28.64	568	.24	1.43		
926	.18	3.16	.09	13.58	7.87	28.67	568	.17	.83		

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Sara Kline / ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kline	SAMPLING INITIATED AT: 930	SAMPLING ENDED AT: 950

PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
		Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): no

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EXL-1 (EW-108)	1	PE	1 L	None	–	–	SM 2540C	APP	100
EXL-1 (EW-108)	1	PE	125 mL	None	–	–	Bromide 300	APP	100
EXL-1 (EW-108)	1	PE	250 mL	HNO3	–	–	6010B	APP	100
EXL-1 (EW-108)	3	CG	40 mL	HCL	–	–	1666	RFPP	100
EXL-1 (EW-108)	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
EXL-1 (EW-108)	3	CG	40 mL	None	–	–	8260B	RFPP	100
EXL-1 (EW-108)	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: concrete work at side building #3 needed to remove pump

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: EW-109	SAMPLE ID: EW-109	DATE: 3-20-09

PURGING DATA

WELL DIAMETER (inches): 5	TUBING DIAMETER (inches): 3/8 0.1875	WELL SCREEN INTERVAL DEPTH: 5 feet to 25 feet	STATIC DEPTH TO WATER (feet): 6.05	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (30 feet - 6.05 feet) X 1.02 gallons/foot = 24.4 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~9.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~9.0	PURGING INITIATED AT: 0745	PURGING ENDED AT: 1153	TOTAL VOLUME PURGED (gallons): 25.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1147	24.4	24.4	0.20	7.73	5.49	23.96	1549	0.27	1.60	Clear	none	-397.1
1150	0.6	25.0	↓	7.73	5.47	23.99	1553	0.26	1.02	↓	↓	-358
1153	0.6	25.6	↓	7.73	5.46	24.03	1555	0.27	1.53	↓	↓	-354

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1154	SAMPLING ENDED AT: 1217
PUMP OR TUBING DEPTH IN WELL (feet): ~9.0	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) Y N RC DUPLICATE(Y/N): N RK Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EW-109	2	PE	1 L	None	–	–	SM 2540C	APP	100
EW-109	3	PE	125 mL	None	–	–	Bromide 300	APP	100
EW-109	4	PE	250 mL	HNO3	–	–	6010B	APP	100
EW-109	3	CG	40 mL	HCL	–	–	1666	RFPP	100
EW-109	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
EW-109	3	CG	40 mL	None	–	–	8260B	RFPP	100
EW-109	8	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Collected DUP-01

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: EW-110	SAMPLE ID: EW-110	DATE: 3/20/2009	

PURGING DATA

WELL DIAMETER (inches): 5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 6.48	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (40 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 50 feet) + 0.25 gallons = 0.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 09:53	PURGING ENDED AT: 10:42	TOTAL VOLUME PURGED (gallons): 5.88

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
09:56	0.36	0.36	0.12	6.96	6.10	24.16	426	0.72	6.21	No	No	-84.4
10:05	1.08	1.44	0.12	7.38	6.16	24.24	426	0.47	5.96	No	No	-90.2
10:08	0.36	1.8	0.12	7.42	6.19	24.25	427	0.36	6.46	No	No	-93.2
10:22	1.68	3.48	0.12	7.46	6.25	24.37	426	0.18	7.10	No	No	-74.0
10:26	0.48	3.96	0.12	7.46	5.67	24.54	1211	0.19	3.77	No	No	-64.5
10:29	0.36	4.32	0.12	7.46	5.34	24.54	1377	0.26	1.37	No	No	7.5
10:36	0.84	5.16	0.12	7.46	5.26	24.48	1502	0.24	1.37	Dark Blue	No	22.8
10:39	0.36	5.52	0.12	7.46	5.26	24.49	1503	0.22	0.99	Dark Blue	No	23.5
10:42	0.36	5.88	0.12	7.46	5.25	24.57	1502	0.22	0.87	Dark Blue	No	23.5

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 10:43	SAMPLING ENDED AT: 11:09
PUMP/OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EW-110	1	PE	1 L	None	--	--	SM 2540C	APP	100
EW-110	1	PE	125 mL	None	--	--	Bromide 300	APP	100
EW-110	1	PE	250 mL	HNO3	--	--	6010B	APP	100
EW-110	3	CG	40 mL	HCL	--	--	1666	RFPP	100
EW-110	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
EW-110	3	CG	40 mL	None	--	--	8260B	RFPP	100
EW-110	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Color is clear until exposed to atmosphere then turns dark blue

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: EW-UAFG-1	SAMPLE ID: EW-UAFG-1	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 98 feet to 108 feet	STATIC DEPTH TO WATER (feet): 20.40	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 115 feet) + 0.25 gallons = 0.41 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 103	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 103	PURGING INITIATED AT: 1053	PURGING ENDED AT: 1114	TOTAL VOLUME PURGED (gallons): 1.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1058	0.4	0.4	0.08	20.55	7.44	27.3	1083	0.51	67.2	Cloudy	none	-325
1103	0.4	0.8	↓	20.55	7.29	27.1	1093	0.39	44.5	↓	↓	-348
1108	0.4	1.2		20.55	7.19	27.1	1085	0.44	30.2			-345
1113	0.24	1.44		20.55	7.18	27.1	1092	0.42	29.4			-338
1114	0.24	1.68		20.55	7.14	27.0	1096	0.43	26.1			-333

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos / S. Leverette / ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: 1125 H3 RK
PUMP OR TUBING DEPTH IN WELL (feet): 103	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N/A um
		Filtration Equipment Type: N/A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
EW-UAFG-1	3	CG	40 mL	HCL	–	–	1666	RFPP	100
EW-UAFG-1	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
EW-UAFG-1	3	CG	40 mL	None	–	–	8260B	RFPP	100
EW-UAFG-1	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: CO-A1D	SAMPLE ID: CO-A1D	DATE: 4.2.09	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 27 feet to 30 feet	STATIC DEPTH TO WATER (feet): 8.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 28.5 feet) + 0.25 gallons = 0.29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.5	PURGING INITIATED AT: 1430	PURGING ENDED AT: 1510	TOTAL VOLUME PURGED (gallons): 1.60	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1500	1.2	1.2	0.04	8.61	5.47	28.61	908	0.41	6.05	clear	none	-22.3
1503	0.12	1.32	↓	8.60	5.48	28.54	913	0.34	6.36	colorless	none	-24.7
1506	0.12	1.44		8.58	5.48	28.52	913	0.32	6.27	↓	↓	-25.2

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Amy Coats /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1510	SAMPLING ENDED AT: 1520
PUMP OR TUBING DEPTH IN WELL (feet): 28.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) * NA	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
CO-A1D	1	PE	125 mL	None	–	–	Bromide 300	APP	100
CO-A1D	1	PE	250 mL	HNO3	–	–	6010B	APP	100
~~CO-A1D~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~	~~–~~	~~–~~	~~1666~~	~~RFPP~~	~~100~~
~~CO-A1D~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~	~~–~~	~~–~~	~~8260B~~	~~RFPP~~	~~100~~
~~CO-A1D~~	~~3~~	~~CG~~	~~40 mL~~	~~None~~	~~–~~	~~–~~	~~8260B~~	~~RFPP~~	~~100~~
~~CO-A1D~~	~~4~~	~~CG~~	~~40 mL~~	~~HCL~~	~~–~~	~~–~~	~~8260B/CSIM~~	~~RFPP~~	~~100~~
CO-A1D	1	PE	500mL	none	–	–	TDS	APP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: CO-B1D	SAMPLE ID: CO-B1D	DATE: 4-2-09	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 27 feet to 30 feet	STATIC DEPTH TO WATER (feet): 8.08	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: (only fill out if applicable) 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: (only fill out if applicable) 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
= 0 gallons + (0.0014 gallons/foot X 30 feet) + 0.25 gallons = 0.29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.5'	PURGING INITIATED AT: 1355	PURGING ENDED AT: 1414	TOTAL VOLUME PURGED (gallons): ~~1.50~~ 0.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1405	0.50	0.50	0.05	8.38	5.63	28.85	775	0.69	9.95	Clear	None	50
1408	0.15	0.65	0.05	8.38	5.63	28.87	765	0.55	8.32	↓	↓	45
1411	0.15	0.80	0.05	8.38	5.63	28.87	759	0.39	8.05			41
1414	0.15	0.95	0.05	8.38	5.63	28.91	757	0.38	7.20			34

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1414	SAMPLING ENDED AT: 1420
PUMP OR TUBING DEPTH IN WELL (feet): 28.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ NA	TUBING(Y/N replaced) (N)	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
CO-B1D	1	PE	125 mL	None	–	–	Bromide 300	APP	100
CO-B1D	1	PE	250 mL	HNO3	–	–	6010B	APP	100
~~CO-B1D~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~	~~–~~	~~–~~	~~1666~~	~~RFPP~~	~~100~~
~~CO-B1D~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~	~~–~~	~~–~~	~~8260B~~	~~RFPP~~	~~100~~
~~CO-B1D~~	~~3~~	~~CG~~	~~40 mL~~	~~None~~	~~–~~	~~–~~	~~8260B~~	~~RFPP~~	~~100~~
CO-B1D	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Installed new tubing after sampling.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: CO-B4D	SAMPLE ID: CO-B4D	DATE: 4.2.09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 27 feet to 30 feet	STATIC DEPTH TO WATER (feet): 8.11	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) =
0 gallons + (0.0014 gallons/foot X 30 feet) + 0.25 gallons = 0.29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28.5	PURGING INITIATED AT: 1445	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (gallons): 0.80

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
~~1455~~	~~0.50~~	~~0.50~~	~~0.05~~	~~8.42~~	~~5.50~~	~~29.01~~	~~0.33~~	~~0.38~~	~~11.2~~	~~Clear~~	~~None~~	~~57~~
~~1458~~	~~0.15~~	~~0.65~~	~~0.05~~	~~8.42~~	~~5.50~~	~~29.03~~	~~0.31~~	~~0.31~~	~~10.3~~			~~53~~
~~1501~~	~~1461~~	~~0.15~~	~~0.80~~	~~0.05~~	~~8.42~~	~~5.52~~	~~1104~~	~~0.25~~	~~0.25~~	~~8.5~~		~~49~~
						29.1						
~~1455~~	~~0.50~~	~~0.50~~	~~0.05~~	~~8.42~~	~~5.50~~	~~1102~~	~~0.38~~	~~0.38~~	~~11.2~~	~~Clear~~	~~None~~	~~57~~
~~1458~~	~~0.15~~	~~0.65~~	~~0.05~~	~~8.42~~	~~5.50~~	~~29.3~~	~~1104~~	~~0.31~~	~~0.31~~	~~10.3~~		~~53~~
~~1501~~	~~0.15~~	~~0.80~~	~~0.05~~	~~8.42~~	~~5.52~~	~~29.5~~	~~1104~~	~~0.25~~	~~0.25~~	~~8.5~~		~~49~~
1455	0.50	0.50	0.05	8.42	5.50	29.1	1102	0.38	11.2	Clear	None	57
1458	0.15	0.65	↓	↓	5.50	29.3	1104	0.31	10.3	↓	↓	53
1501	0.15	0.80			5.52	29.5	1104	0.25	8.5			49

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jon Kerstetter /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1510	SAMPLING ENDED AT: ~~1515~~ 1515
PUMP OR TUBING DEPTH IN WELL (feet): 28.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y NA TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
CO-B4D	1	PE	125 mL	None	–	–	Bromide 300	APP	100
CO-B4D	1	PE	250 mL	HNO3	–	–	6010B	APP	100
~~CO-B4D~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~	–		1666	RFPP	100
~~CO-B4D~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~	–		8260B	RFPP	100
~~CO-B4D~~	~~3~~	~~CG~~	~~40 mL~~	~~None~~	–	–	8260B	RFPP	100
~~CO-B4D~~	~~4~~	~~CG~~	~~40 mL~~	~~HCL~~			~~8260B/CSIM~~	RFPP	100
CO.B4D	1	PE	250mL	None			TDS	APP	100

REMARKS: Replaced tubing after sampling.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: CO-C1D	SAMPLE ID: CO-C1D	DATE: 4-2-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 26 feet to 30 feet	STATIC DEPTH TO WATER (feet): 7.95	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 28	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 28	PURGING INITIATED AT: 1518	PURGING ENDED AT: 1530	TOTAL VOLUME PURGED (gallons): 1.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1525	.63	.63	.09	8.49	5.20	29.27	762	.45	8.31	clear	none	25.6
1528	.27	.90	.09	8.47	5.19	29.29	767	.31	7.38	↓	↓	23.1
1530	.18	1.08	.09	8.46	5.20	29.27	769	.26	9.74	↓	↓	20.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lisa Kimel ARCADIS	SAMPLER(S) SIGNATURE(S): SEK/CW	SAMPLING INITIATED AT: 1531	SAMPLING ENDED AT: 1545
PUMP OR TUBING DEPTH IN WELL (feet): 28	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
CO-C1D	1	PE	125 mL	None	–	–	Bromide 300	APP	100
CO-C1D	1	PE	250 mL	HNO3	–	–	6010B	APP	100
CO-C1D	3	CG	40 mL	HCL	–	–	1666	RFPP	100
CO-C1D	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
CO-C1D	3	CG	40 mL	None	–	–	8260B	RFPP	100
CO-C1D	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE REAOINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	CO-D1D	SAMPLE ID:	CO-D1D	DATE: 4-2-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	26 feet to 30 feet	8.06	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 30 feet) + 0.25 gallons = .29 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
28	28	1516	1531	1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1521	.60	.60	.12	8.94	5.32	29.41	771	.79	7.19	none	none	-22.2
1524	.3	.90	.10	8.97	5.31	29.41	778	.45	9.58			-28.1
1527	.3	1.20	.10	8.85	5.30	29.44	793	.40	8.47			-30.9
1529	.2	1.40	.10	8.81	5.31	29.44	810	.35	1.39	↓	↓	-36.5
1531	.2	1.6	.10	8.81	5.30	29.42	817	.31	1.26	↓	↓	-39.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
S INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
EK/CW /ARCADIS		1532	1545

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
28	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
CO-D1D	1	PE	125 mL	None	–	–	Bromide 300	APP	100
CO-D1D	1	PE	250 mL	HNO3	–	–	6010B	APP	100
CO-D1D	3	CG	40 mL	HCL	–	–	1666	RFPP	100
CO-D1D	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
CO-D1D	3	CG	40 mL	None	–	–	8260B	RFPP	100
CO-D1D	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Sunny

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	IWI-1	SAMPLE ID:	IWI-1	DATE: 3-30-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	0.1875	100 feet to 110 feet	20.70	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (110 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 115 feet) + 0.25 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
115	115	1005	1026	1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or ~~us/cm~~	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1012	0.4	0.4	0.06	20.98	7.17	27.8	1112	0.60	18.5	clear	none	352
1019	0.4	0.8	↓	20.97	7.14	27.8	1140	0.51	17.2	↓	↓	350
1026	0.4	1.2	↓	20.97	7.12	27.8	1164	0.50	17.9	↓	↓	354

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
R. Kontos, S. Lavergne /ARCADIS		1027	1042

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
115	PE	Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
IWI-1	1	PE	250 mL	HNO3	–	--	6010B Dissolved Fe, Mn	APP	100
IWI-1	1	PE	250 mL	HNO3	–	--	6010B Total Fe, Mn	APP	100
IWI-1	3	CG	40 mL	HCL	–	--	1666	RFPP	100
IWI-1	3	CG	40 mL	HCL	–	--	8260B	RFPP	100
IWI-1	3	CG	40 mL	None	–	--	8260B	RFPP	100
IWI-1	4	CG	40 mL	HCL	–	--	8260B/CSIM	RFPP	100

REMARKS: note - need vault lid bolts

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: IWI-2	SAMPLE ID: IWI-2	DATE: 3-30-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 162 feet to 172 feet	STATIC DEPTH TO WATER (feet): 23.60	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (175 feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 180 feet) + 0.25 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 167'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 167'	PURGING INITIATED AT: 0905	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
0915	0.5	0.5	0.05	25.30	7.65	26.5	698	0.60	12.5	clear	slight	352
0925	0.5	1.0	↓	25.30	7.53	26.7	688	0.59	16.1	↓	↓	357
0935	0.5	1.5	↓	25.30	7.49	26.7	687	0.54	19.3	↓	↓	344

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Kontos, S. Lievertte /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0936	SAMPLING ENDED AT: 0951
PUMP OR TUBING DEPTH IN WELL (feet): 167'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): Y	FILTER SIZE: 0.45 um
		Filtration Equipment Type: Disposable Filter	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
IWI-2	1	PE	250 mL	HNO3	--	--	6010B Dissolved Fe, Mn	APP	100
IWI-2	1	PE	250 mL	HNO3	--	--	6010B Total Fe, Mn	APP	100
IWI-2	3	CG	40 mL	HCL	--	--	1666	RFPP	100
IWI-2	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
IWI-2	3	CG	40 mL	None	--	--	8260B	RFPP	100
IWI-2	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: note - Needs Dolphin Lock

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: PZ-LSAS-1	SAMPLE ID: PZ-LSAS-1	DATE: 4-2-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 8.47	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 10:36	PURGING ENDED AT: 10:58	TOTAL VOLUME PURGED (gallons): 1.32

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
10:46	.60	.60	.06	9.67	6.26	29.49	106	1.64	2.03	none	none	29.2
10:49	.18	.78	.06	9.75	6.23	29.62	99	1.55	3.55	"	"	33.5
10:52	.18	.96	.06	9.82	6.21	29.60	96	1.57	1.62	"	"	39.7
10:55	.18	1.14	.06	9.86	6.19	29.66	94	1.52	2.03	"	"	44.3
10:58	.18	1.32	.06	9.90	6.18	29.56	95	1.55	2.12	"	"	49.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Klimes	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:15
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
PZ-LSAS-1	3	CG	40 mL	HCL	--	--	1666	RFPP	100
PZ-LSAS-1	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
PZ-LSAS-1	3	CG	40 mL	None	--	--	8260B	RFPP	100
PZ-LSAS-1	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS: Warm with lots of sunshine :)

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: PZ-LSAS-2	SAMPLE ID: PZ-LSAS-2	DATE: 4-2-09	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 9.30	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = 31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 1039	PURGING ENDED AT: 1057	TOTAL VOLUME PURGED (gallons): 1.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1049	.6	.6	.06	10.65	6.24	29.61	904	.52	.07	clear	none	-35.0
1051	.1	.7	.05	10.68	6.33	29.49	1059	.60	.19	↓	↓	-71.4
1053	.1	.8	.05	10.70	6.33	29.44	1092	.69	1.01			-79.0
1055	.1	.9	.05	10.72	6.35	29.36	1112	.41	0.98			-88.7
1057	.1	1.0	.05	10.74	6.36	29.45	1126	.40	0.79	↓	↓	-92.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kleven	SAMPLING INITIATED AT: 1058	SAMPLING ENDED AT: 1110
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): YES

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
PZ-LSAS-2	3	CG	40 mL	HCL	–	–	1666	RFPP	100
PZ-LSAS-2	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
PZ-LSAS-2	3	CG	40 mL	None	–	–	8260B	RFPP	100
PZ-LSAS-2	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

Dup-13
Field Blank-10 (FB-10) collected @ 1115

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: PZ-LSAS-3	SAMPLE ID: PZ-LSAS-3		DATE: 4-2-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 29 feet to 34 feet	STATIC DEPTH TO WATER (feet): 9.39	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31.5	PURGING INITIATED AT: 8 12	PURGING ENDED AT: 8:25	TOTAL VOLUME PURGED (gallons): .98

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	OPR
8:19	.56	.56	.08	10.25	5.99	27.27	1208	.89		clear	none	-45.7
8:21	.14	.70	.07	10.22	6.01	27.17	1210	.92	4.29	↓	↓	-48.7
8:23	.14	.84	.07	10.22	6.06	27.07	1214	.98	3.25			-48.7
8:25	.14	.98	.07	10.22	6.11	27.11	1222	.88	4.37			-52.1

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Shea Kinch	SAMPLING INITIATED AT: 826	SAMPLING ENDED AT: 835
PUMP OR TUBING DEPTH IN WELL (feet): 31.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
PZ-LSAS-3	3	CG	40 mL	HCL	--	--	1666	RFPP	100
PZ-LSAS-3	3	CG	40 mL	HCL	--	--	8260B	RFPP	100
PZ-LSAS-3	3	CG	40 mL	None	--	--	8260B	RFPP	100
PZ-LSAS-3	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida		
WELL NO:	PZ-LSAS-4	SAMPLE ID:	PZ-LSAS-4	DATE:	4-2-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 9.34	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 9:15	PURGING ENDED AT: 9:42	TOTAL VOLUME PURGED (gallons): 1.82

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
9:26	.77	.77	.07	10.86	6.65	28.96	372	2.28	2.92	none	none	-32.8
9:29	.21	.98	.07	10.88	6.19	28.92	1524	.88	1.96			-76.8
9:32	.21	1.19	.07	10.75	6.22	28.89	16011	1.39	1.72			-93.0
9:35	.21	1.40	.07	10.58	6.24	28.94	16062	.88	2.12			-98.9
9:38	.21	1.61	.07	10.54	6.25	29.01	1677	.66	1.80			-101.1
9:41	.21	1.82	.07	10.48	6.25	29.06	1688	.55	1.80			-98.7

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Klimek	SAMPLING INITIATED AT: 9:46	SAMPLING ENDED AT: 9:56
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
PZ-LSAS-4	3	CG	40 mL	HCL	–	–	1666	RFPP	100
PZ-LSAS-4	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
PZ-LSAS-4	3	CG	40 mL	None	–	–	8260B	RFPP	100
PZ-LSAS-4	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Sunny + Warm w/ slight Breeze

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: PZ-LSAS-5	SAMPLE ID: PZ-LSAS-5		DATE: 4-2-09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 28.3 feet to 33.3 feet	STATIC DEPTH TO WATER (feet): 9.09	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 9:10	PURGING ENDED AT: 929	TOTAL VOLUME PURGED (gallons): 1.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
921	.8	.8	.08	10.60	29.24	6.17	1758	.64	7.34	clear	none	-55.3
923	.14	.94	.07	10.65	6.17	29.25	1765	.54	3.42	↓	↓	-58.6
925	.12	1.06	.06	10.65	29.29	6.15	1795	.31	1.98			-59.5
927	.12	1.18	.06	10.65	6.13	29.22	1801	.30	2.51			-57.7
929	.12	1.30	.06	10.65	6.12	29.16	1813	.27	1.88			-55.3

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: SEK/CW /ARCADIS	SAMPLER(S) SIGNATURE(S): Sara Kimel	SAMPLING INITIATED AT: 930	SAMPLING ENDED AT: 945
PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: NA	FILTER SIZE: NA um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
PZ-LSAS-5	3	CG	40 mL	HCL	–	–	1666	RFPP	100
PZ-LSAS-5	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
PZ-LSAS-5	3	CG	40 mL	None	–	–	8260B	RFPP	100
PZ-LSAS-5	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: PZ-LSAS-6	SAMPLE ID: PZ-LSAS-6	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 30 feet to 35 feet	STATIC DEPTH TO WATER (feet): 10.32	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 60 feet) + 0.25 gallons = 0.33 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 32.5	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1530	TOTAL VOLUME PURGED (gallons): 1.32

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1515	0.33	0.33	0.06	10.66	6.52	29.4	1376	0.73	323	Clear	Slight	-192
1520	0.33	0.66	↓	10.66	6.47	29.5	1366	0.44	2.09	↓	↓	-276
1525	0.33	0.99		10.66	6.49	29.4	1354	0.33	1.96			-274
1530	0.33	1.32		10.66	6.48	29.4	1345	0.32	2.27			-271

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R.Kontos, S.Leverette/ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1531	SAMPLING ENDED AT: 1545
PUMP OR TUBING DEPTH IN WELL (feet): 32.5	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) (Y) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (Y)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
PZ-LSAS-6	3	CG	40 mL	HCL	–	–	1666	RFPP	100
PZ-LSAS-6	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
PZ-LSAS-6	3	CG	40 mL	None	–	–	8260B	RFPP	100
PZ-LSAS-6	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: Collected DUP-14

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24 1350

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	PZ-LSAS-7	SAMPLE ID:	PZ-LSAS-7	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 28 feet to 33 feet	STATIC DEPTH TO WATER (feet): 9.19	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 100 feet) + 0.25 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.5	PURGING INITIATED AT: 1410	PURGING ENDED AT: 1428	TOTAL VOLUME PURGED (gallons): 1.26

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1416	0.42	0.42	0.07	10.16	5.90	30.24	723	0.75	2.18	No	No	-38.7
1419	0.21	0.63	0.07	10.28	5.94	30.10	747	0.71	1.02			-38.7
1422	0.21	0.84	0.07	10.29	5.96	30.06	763	0.62	2.40			-41.3
1425	0.21	1.05	0.07	10.32	5.98	29.96	805	0.55	4.04			-44.3
1428	0.21	1.26	0.07	10.33	6.03	29.94	893	0.48	2.13	V	V	-49.8

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
M. Seiler / C Holton /ARCADIS	Matthew D Seiler / C Holton	1432	1444

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
30.5	PE	Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y/N TUBING(Y/N replaced) N DUPLICATE (Y/N): Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
PZ-LSAS-7	3	CG	40 mL	HCL	–	–	1666	RFPP	100
PZ-LSAS-7	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
PZ-LSAS-7	3	CG	40 mL	None	–	–	8260B	RFPP	100
PZ-LSAS-7	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100
Dup-15	4	CG	40mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: checked calibration prior to purge

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: RW-1	SAMPLE ID: RW-1	DATE: 4/2/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 15 feet to 20 feet	STATIC DEPTH TO WATER (feet): 8.16	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 55 feet) + 0.25 gallons = .32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.5'	PURGING INITIATED AT: 1140 ~~0934~~	PURGING ENDED AT: 1155	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1145	.35	.35	0.07	8.21	5.96	27.7	748	0.55	11.8	Clear	~~Slight~~	-239
1150	.35	.70	↓	8.21	5.91	27.8	750	0.38	8.87	↓	↓	-236
1155	.35	1.05	↓	8.21	5.90	27.8	751	0.36	10.53	↓	↓	-234

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leverette R. Karbs /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1156	SAMPLING ENDED AT: 1203

PUMP OR TUBING DEPTH IN WELL (feet): 17.5'	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): (N) Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) (N) TUBING(Y/N replaced) (N) DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
RW-1	3	CG	40 mL	HCL	–	–	1666	RFPP	100
RW-1	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
RW-1	3	CG	40 mL	None	–	–	8260B	RFPP	100
RW-1	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9[illegible]-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	RW-2	SAMPLE ID:	RW-2	DATE: 4-2-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	0.1875	15 feet to 20 feet	7.65	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X 40 feet) + 0.25 gallons = .31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
17.5	17.5	1300	1313	1.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1309	.72	.72	.08	7.73	5.38	30.48	563	.35	1.84	clear	none	155.2
1311	.16	.88	.08	7.73	5.35	30.37	563	.26	.73	↓	↓	158.0
1313	.16	1.04	.08	7.73	5.34	30.40	563	.23	.85	↓	↓	162.0

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
SEK/CW /ARCADIS	[signature]	1314	1325

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED (Y/N):	FILTER SIZE:
17.5	PE	N	N\A um
		Filtration Equipment Type: N\A	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): NO

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
RW-2	3	CG	40 mL	HCL	–	–	1666	RFPP	100
RW-2	3	CG	40 mL	HCL	–	–	8260B	RFPP	100
RW-2	3	CG	40 mL	None	–	–	8260B	RFPP	100
RW-2	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

DUP

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

1445

SITE NAME: ABC Facility	SITE LOCATION: Tallevast Florida	
WELL NO: TW-84-A	SAMPLE ID: TW-84-A	DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 9.10	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (12 feet - 9.10 feet) X 0.16 gallons/foot = 0.46 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.10	PURGING INITIATED AT: 1502	PURGING ENDED AT: 1517	TOTAL VOLUME PURGED (gallons): 1.38

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or ~~us/cm~~	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1508	0.54	0.54	0.09	9.45	5.96	24.60	1967	0.88	13.7	no	strong	-51.6
1511	0.27	0.81	0.09	9.46	5.89	24.52	2070	0.48	4.11	↓	↓	-40.0
1514	0.27	1.08	0.09	9.47	5.89	24.51	2070	0.48	3.92			-31.6
1517	0.27	1.38	0.09	9.48	5.88	2443	2080	0.51	3.17			-29.3

.PACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Sedon / C. Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew M. Sedon / C. Holton	SAMPLING INITIATED AT: 1522	SAMPLING ENDED AT: 1525
PUMP OR TUBING DEPTH IN WELL (feet): 11.10	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um
FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ N	TUBING(Y/N replaced) N	DUPLICATE (Y/N): N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
TW-84-A	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

1530

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: TW-84-B	SAMPLE ID: TW-84-B	DATE: 4/1/09	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 9.18	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (12 feet - 9.18 feet) X 0.16 gallons/foot = 0.45 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.18	PURGING INITIATED AT: 1540	PURGING ENDED AT: 1554	TOTAL VOLUME PURGED (gallons): 1.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1545	0.5	0.5	0.1	9.41	5.42	25.04	808	0.83	6.00	no	strong	-39.4
1548	0.3	0.8	0.1	9.42	5.41	24.71	799	0.58	6.87	↓	↓	-28.0
1551	0.3	1.1	0.1	9.42	5.41	24.74	777	0.51	5.72			-24.0
1554	0.3	1.4	0.1	9.42	5.41	24.73	769	0.46	3.98			-16.5

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Seder / C. Holtzapf /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D. Seder / C. Holtzapf	SAMPLING INITIATED AT: 1555	SAMPLING ENDED AT: 1558
PUMP OR TUBING DEPTH IN WELL (feet): 11.18	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) N TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~TW-84-B~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~			~~1666~~	~~RFPP~~	~~100~~
~~TW-84-B~~	~~3~~	~~CG~~	~~40 mL~~	~~HCL~~			~~8260B~~	~~RFPP~~	~~100~~
~~TW-84-B~~	~~3~~	~~CG~~	~~40 mL~~	~~None~~			~~8260B~~	~~RFPP~~	~~100~~
TW-84-B	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

MAS MNA MNO

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
NO: 7561/7571 15TH ST E (PW-7)	SAMPLE ID: 7561/7571 15TH ST E (PW-7)		DATE: 4/2/2009

PURGING DATA

ESP

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: ~~PP~~ AT

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (N/A feet - N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X N/A feet) + 0.25 gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 10:20	PURGING ENDED AT: AT ~~10:30~~ 10:27	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
ING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 10:27	SAMPLING ENDED AT: 10:30
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
7561/7571 15TH ST E	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

Private well; no purge stabilization

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	7500 26th CT E PW-57	SAMPLE ID:	7500 26th CT E PW-57	DATE: 4-1-09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 57 feet to 440 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1210	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
		2gal								Clear Initial yes Final none	

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1220	SAMPLING ENDED AT: 1225

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N	FILTER SIZE: N\A um
		Filtration Equipment Type: NA	

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
7500 26TH CT E	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

pump is north of building, south of pond. two ports. One is turned on. Sampled from the east spicket two well-x-tra tanks. two disconnects.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: RT ~~1201~~ TALLEVAST RD (PW-64) 1107	SAMPLE ID: RT 1107 ~~1201~~ TALLEVAST RD (PW-64)	DATE: 4/2/2009	

PURGING DATA

WELL DIAMETER (inches): 5	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): 20.61	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (N/A feet - N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X N/A feet) + 0.25 gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 11:21	PURGING ENDED AT: 11:31	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
			0.16								

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 11:32	SAMPLING ENDED AT: 11:40
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
1201 TALLEVAST RD	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

No readings per M. Davidson

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility RT		SITE LOCATION: Tallevast Florida	
WELL NO: ~~1107~~ TALLEVAST RD (PW-65) 1201	SAMPLE ID: RT 1201 ~~1107~~ TALLEVAST RD (PW-65)	DATE: 4/2/2009	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: N/A feet to N/A feet	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: ESP ~~PP~~ RT

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (N/A feet - N/A feet) X N/A gallons/foot = N/A gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X N/A feet) + 0.25 gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
N/A	N/A	10:40	10:50	N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle /ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle	SAMPLING INITIATED AT: 10:50	SAMPLING ENDED AT: 11:00
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
1201 RT ~~1107~~ TALLEVAST RD	4	CG	40 mL	HCL	--	--	8260B/CSIM	RT ~~RFPP~~ ESP	100

Private well; no purge stabilization

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: PW-84 2400 TALLEVAST RD	SAMPLE ID: PW-84 2400 TALLEVAST RD	DATE: 3-30-09	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
		NO Purge Required									

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1 G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1648	SAMPLING ENDED AT: 1650
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N):

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
2400 TALLEVAST RD	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

REMARKS: NO Purge Potable Well / Spigot Running

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: 7851 15TH ST E	SAMPLE ID: 7851 15TH ST E		DATE: 4/1/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: 250 feet to 480 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
				SEE BELOW							

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
...G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: S. Leveelte N. Kanos /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT 0725	SAMPLING ENDED AT: 0730
PUMP OR TUBING DEPTH IN WELL (feet): m	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
7851 15TH ST E	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

*PW = No purge needed.

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

0955

GROUNDWATER SAMPLING LOG

SITE NAME:	ABC Facility	SITE LOCATION:	Tallevast Florida	
WELL NO:	8005 15TH ST E	SAMPLE ID:	8005 15TH ST E	DATE: 3/31/09

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): NA	PURGE PUMP TYPE OR BAILER: ~~PP~~ NA

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 1000	PURGING ENDED AT: 1005	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

Matthew D. Seder

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. Seder / C. Holton /ARCADIS	SAMPLER(S) SIGNATURE(S): Matthew D Seder / C. Holton	SAMPLING INITIATED AT: 1003	SAMPLING ENDED AT: 1010
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N/A	FILTER SIZE: N/A um

FIELD DECONTAMINATION: PUMP(Y/N) ~~Y~~ N TUBING(Y/N replaced) N/A DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
8005 15TH ST E	4	CG	40 mL	HCL	--	--	8260B/CSIM	~~PERP~~ spigot	100

REMARKS: irrigation well sampled at spigot ; 5 minute line purge

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: 2105 TALLEVAST RD	SAMPLE ID: 2105 TALLEVAST RD	DATE: 4/15/09	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: feet to 152 feet	STATIC DEPTH TO WATER (feet): 18.84	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X ~145 feet) + 0.25 gallons = 0.45 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~140	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~140	PURGING INITIATED AT: 1426	PURGING ENDED AT: 1443	TOTAL VOLUME PURGED (gallons): 1.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	ORP
1437	0.88	0.88	0.08	18.84	7.23	23.30	690	0.37	19.8	clear	none	-249
1440	0.24	1.12	0.08	18.84	7.23	23.34	692	0.33	15.2	↓	↓	-259
1443	0.24	1.36	0.08	18.84	7.22	23.30	693	0.32	13.9			-261

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
1. 3 INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MARK DAVIDSON /ARCADIS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1444	SAMPLING ENDED AT: 1454
PUMP OR TUBING DEPTH IN WELL (feet): ~140	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
2105 TALLEVAST RD	4	CG	40 mL	HCL	--	--	8260B/CSIM	RFPP	100

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: ABC Facility		SITE LOCATION: Tallevast Florida	
WELL NO: 2411 TALLEVAST RD	SAMPLE ID: 2411 TALLEVAST RD		DATE: 4/13/2009

PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): 0.1875	WELL SCREEN INTERVAL DEPTH: N/A feet to N/A feet	STATIC DEPTH TO WATER (feet): N/A	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = 0 gallons + (0.0014 gallons/foot X feet) + 0.25 gallons = N/A gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	FINAL PUMP OR TUBING DEPTH IN WELL (feet): N/A	PURGING INITIATED AT: 16:20	PURGING ENDED AT: 16:30	TOTAL VOLUME PURGED (gallons): N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (deg C)	COND. (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

N/A

CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
.G INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Ryan Tuttle / MACK DAVIS/ARCADIS	SAMPLER(S) SIGNATURE(S): Ryan Tuttle / MD	SAMPLING INITIATED AT: 16:30	SAMPLING ENDED AT: 16:34
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: PE	FIELD-FILTERED (Y/N): N Filtration Equipment Type: N\A	FILTER SIZE: N\A um

FIELD DECONTAMINATION: PUMP(Y/N) Y TUBING(Y/N replaced) N DUPLICATE (Y/N): N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
2411 TALLEVAST RD	4	CG	40 mL	HCL	–	–	8260B/CSIM	RFPP	100

Private well; no stabilization parameters required

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/16	NE	MW-111	23	28	yes	27.93	6.32	~~two~~ both. jplug good needs
3/17	NE	MW-113	37	42	needs tubing	42.35	14.92	two bolts. jplug good needs lock
3/17	NE	MW-131	100	110	yes.	110.05	19.62	two bolts jplug good
3/17	NE	MW-132	101	111	yes	109.20	20.05	
	NE	MW-135	94	104		105.30	20.0	
	NE	MW-136	98.5	108.5	yes	107.50	18.20	no place for bolts. jplug good
	NE	MW-137	17	22	needs tubing	43.15	5.75	has two bolts jplug good
	NE	MW-138	38	43	yes	22.41	11.49	needs bolts. jplug good
	NE	MW-139	147	157	yes	159.54	16.45	needs bolts jplug good.
	NE	MW-140	280	300	yes.	298.72	14.37	need green 2.5 jplug no bolts black orange jplug
	NE	MW-141	15	20				
	NE	MW-142	26	31				
	NE	MW-143	96	106				
	NE	MW-144	140	150				
	NE	MW-145	280	300				
3/17	NE	MW-146	19.5	24.5	yes.	24.69	6.00	need bolts jplug good needs lock
	NE	MW-147	29.5	34.5	yes	34.40	5.93	needs bolts " "
	NE	MW-148	95.5	105.5	yes	105.17	18.30	need bolts " "
	NE	MW-149	145	155	yes	153.85	16.70	needs bolts " "
	NE	MW-150	285	305	yes	>300	15.01	needs bolts " "
	NE	MW-162	11	16	yes	16.79	6.33	has bolts good jplug
	NE	MW-163	30	35	yes.	36.26	11.57	has bolts good jplug

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/17	NE	MW-164	92	102	yes	102.30	18.92	bolts has two jplugs
3/17	NE	MW-165	142	152	yes.	144.	17.36	has bolts good jplug needs work
3/17	NE	MW-166	281	301	yes	>300	14.57	has one bolt jplug good
3/17	NE	MW-16D	15	20	yes	18.28	5.84	no room for bolts jplugs ~~good~~ needs
3/17	NE	MW-16S	4	10	yes	9.79	5.95	no room for bolts jplug good
3/17	NE	MW-17D	15	20	needs tubing	19.14	7.19	no room for bolts needs new jplug
3/17	NE	MW-17S	4	10	yes	9.26	7.03	no room for bolts needs new jplug
3/17/09	NE	MW-193	90	100	yes	100.85	15.69	two bolts masterlock jplug good
3/17/09	NE	MW-194	145	155	yes	154.01	12.61	two bolts masterlock jplug good.
3/17/09	NE	MW-195	280	300	needs tubing	296.93	10.40	
3/17/09	NE	MW-198	11	16	need tubing	4.78 <-> 16.14		two bolts jplug masterlock
3/17	NE	MW-199	30	35	need tubing	12.5 <-> 35.50		jplug good ~~no~~ bolts masterlock
3/17	NE	MW-200	90	100	need tubing	15.68 <-> 100.71		needs jplug two bolts masterlock
3/17	NE	MW-201	150	160	yes.	11.42 <-> 160.6		two locks masterlock jplug good
3/17	NE	MW-202	280	300	needs tubing	9.56 <-> 297.89		two locks masterlock jplug good
	NE	MW-203 B	390	410				BOOTH
3/17	NE	MW-204	11	16	yes	5.68 <-> 16.06		has two bolts. has master lock jplug good
3/17	NE	MW-205	30	35	~~yes~~ needs tubing	10.77 <-> 35.89		two bolts masterlock jplug good
3/17	NE	MW-206	90	100	yes	15.82	100.81	two bolts masterlock plug good
3/17	NE	MW-207	281	301	yes	10.24	>300	has ~~two~~ bolt masterlock plug good
	NE	MW-213 B	15	20				
	NE	MW-214 B	30	35				

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
	NE	MW-215 D	90	100				
	NE	MW-216 D	140	150				
	NE	MW-217 D	280	300				
	NE	MW-218 D	365	385				
3/17/09	NE	MW-228	98	108	yes	14.00	110.80	two bolts, jplug good.
	NE	MW-234 D	15	20				
	NE	MW-235 D	35	40				
	NE	MW-236 D	90	100				
	NE	MW-237 D	145	155				
	NE	MW-238 D	280	300				
3/17	NE	MW-239	98	108	yes	22.79	19.13	
	NE	MW-249 D	88	98				
	NE	MW-250 D	90	100				
3/17	NE	MW-26	21.5	26.5	yes	23.80	7.10	~~needs~~ bolts need new lock ~~has~~ jplug good.
3/17	NE	MW-46	280	300	needs tubing	299.80	16.05	
3/17	NE	MW-49	146	156	yes	155.00	20.25	need bolts & lock, jplug good
3/17	NE	MW-50	245	255	needs tubing	255.65	16.96	
3/17	NE	MW-51	261.6	271.6	yes.	267.3	15.93	jplug good has two bolts. needs new lock
3/17	NE	MW-62	17.5	22.5	yes.	22.17	6.68	jplug good has bolts
3/17	NE	MW-63	25	30	yes	30.7	6.25	jplug good has bolts
3/17	NE	MW-65	19	24	yes	22.75	6.20	two bolts. needs new jplug
3/17	NE	MW-66	18.5	23.5	yes	22.80	6.53	needs bolts jplug good

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/17	NE	MW-79	36	41	yes	40.45	11.95	
3/17	NE	MW-89	27	32	yes	32.86	6.88	two bolts
3/17	NE	MW-90	25.5	30.5	yes	30.12	6.15	two bolts
3/17	NE	MW-92	33	38	yes	38.52	15.30	has bolts needs green plug
3/17	NE	MW-93	33	38	yes	37.54	14.70	has bolts good needs plug
3/17	NE	MW-96	196	206	yes	204.67	15.09	needs bolts plug Dolphin lock needs replacing
3/17	NE	MW-97	208	226	yes	217.45	15.59	needs bolts casing is too high to close
	NE	2105 TALLEVAST RD						
	NE	7500 26th CT E	57	440				
	NE	2411 TALLEVAST RD						
	NE	Staff Gauge-6						
	NE	Staff Gauge-8						
3/17	NE	Staff Gauge-9			dry			
	NE	Stilling Well-3						
3/17	NE	Stilling Well-4			dry			

* = measured feet below the top of the casing

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/17/09	NW	MW-196	90	100	Y	99.40'	20.55'	Needs lock
	NW	MW-197	106	116	N	115.00'	22.95'	Needs lock and tubing
	NW	MW-21	135	145	~~N~~ RT Y	145.10'	20.15'	Pad needs to be raised for plug
	NW	MW-229	17.5	22.5	Y	21.91'	9.37'	Needs lock
	NW	MW-230	31	36	Y	9,70' ↻	35.62'	Needs lock
	NW	MW-231	97	107	Y	106.25	24.39'	Needs lock
	NW	MW-232	98	108	Y	105.10'	17.79'	
	NW	MW-242	20	25	Y	24.90'	4.98'	
	NW	MW-243	33	38	Y	37.50'	15.22'	
	NW	MW-244	106	116	Y	115.85'	17.25'	
	NW	MW-245	17	22	Y	21.70	*6.70/6.77†	Needs lock
	NW	MW-246	40	45	Y	44.90	*15.08/14.68†	Need lock, green J-plug
	NW	MW-247	98	108	Y	108.00	*14.96/16.14†	Needs bolt, ~~lock~~, 2.5" J plug
	NW	MW-251	380	400	Y	~~77.~~ RT >300'	17.30	
	NW	MW-31	275	295	Y	295.10	17.61'	
	NW	MW-45	150	160	Y	149.00'	21.40'	
	NW	MW-47	22	27	Y	26.25'	7.18'	
	NW	MW-48	33.5	38.5	Y	37.60'	13.98'	
	NW	MW-59	140	150	Y	154.20'	20.22'	
	NW	MW-60	145	155	Y	155.00	20.65'	
	NW	MW-61	135	145	Y	145.20'	20.95'	
	NW	MW-67	24	29	Y	27.90'	7.88'	

* Water level tagged before venting on 3/16/2009

\+ " " " after venting on 3/17/2009

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/17/09	NW	MW-108	23	28	Y	5.36'	26.76'	
	NW	MW-109	23	28	Y	26.35'	7.11'	
	NW	MW-110	23	28	Y	27.88	6.75'	
	NW	MW-115	20	25	N	8.60'	29.14'	Needs tubing replaced
	NW	MW-116	21	26	Y	~~3.68'~~ RT 24.80'	3.68'	
	NW	MW-125	30	35	Y	9.43'	34.81'	
	NW	MW-13D	15	20	Y	19.25'	7.56'	
	NW	MW-13S	4	10	Y	9.60'	7.39'	
	NW	MW-14D	15	20	Y	19.50'	~~6.75'~~	
	NW	MW-14S	4	10	Y	9.40'	6.45'	
	NW	MW-151	17	22	Y	21.86'	5.40'	
	NW	MW-152	37.5	42.5	Y	42.45'	6.85'	Green needs plug
	NW	MW-153	97	107	Y	106.85'	15.84'	needs green plug
	NW	MW-154	144.5	154.5	N	154.45'	14.47'	needs green plug
	NW	MW-155	284	304	Y	>300'	11.46'	needs green plug
	NW	MW-175	98.3	108.3	Yes	105.20'	22.61'	Needs lock
	NW	MW-176	150	160	Yes	159.00'	22.22'	Needs lock
	NW	MW-177	285	305	No	>300'	19.05'	Needs lock and tubing
	NW	MW-178	31.5	36.5	Yes	36.35'	15.14'	Replaced lock
	NW	MW-179	93	103	~~#~~No	102.2'	16.36'	Replaced lock & tubing
	NW	MW-180	145.3	155.3	No	154.80'	17.31'	Needs bolts, replaced lock & tubing
	NW	MW-181	275	295	~~13.54'~~ RT Yes	>300'	13.54'	Needs bolts, replaced lock

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/17/09	NW	MW-68	35.5	40.5	Y	40.60'	14.13'	
	NW	MW-69	23	28	Y	27.80	6.61'	
	NW	MW-81	36	41	Y	39.85'	14.37'	
	NW	MW-86	30	35	Y	34.70'	13.94'	
	NW	7524 COMMERCE PLACE	-	-	-	-	-	
	NW	1107 TALLEVAST RD	-	-	-	-	-	
	NW	1201 TALLEVAST RD	-	-	-	-	-	
	NW	7561/7571 15TH ST E	-	-	-	-	-	
	NW	Staff Gauge-3	NA	NA	NA	NA	0.38	
	NW	Staff Gauge-4	NA	NA	NA	NA	0.03	Wind was blowing during measurement

* = measured feet below the top of the casing

NW Quad

well ID	Time	Tubing mid screen (yes/no)	comments
MW-108			
MW-109			
MW-110	1645	yes	pull tubing up 4"
MW-115			
MW-116			
MW-125			
MW-13D	1638	yes	pull tubing up 2'
MW-13S	1638	yes	pull tubing up 4'
MW-14D	1630	yes	pull tubing up 5'
MW-14S	1630	yes	pull tubing up 5'
MW-151			
MW-152			
MW-153			
MW-154			
MW-155			
MW-175			
MW-176			
MW-67	1635	yes	pull up 4'
MW-45	1645	yes	pull upm 5'
MW-86	1650	yes	pull up 5'
MW-21	1655	yes	new green well cap / pull up 5'

Water Level Log - Former ABC Facility

	Date	Quadrant	Well ID	Sreen Interval Top	Sreen Interval Bottom	Tubing midscreen Y/N (measured)	Total Depth of Well* (measured)	Water Level* (measured)	Comments/Observations
	3.17	SE	MW-104	25.4	30.4	Y 0840	29.99	5.78 @ 0848	1 bolt needed
	3-18	SE	MW-105	41.8	46.8	Y	~~75~~ 75.8'	7588 0952	1 bolt needed
Vent 3.16	3.17	SE	MW-107	21	26	Y	25.41'	5.74' @ 1650	
		SE	MW-114	35	40				Could not find well. Told event lead on March 16 17th or 18th
	3-18	SE	MW-133	100	110	Y		19.43' @ 912	
Vent 3.16	3-17	SE	MW-156	15	20	Y	19.66	4.98 @ 1615	
Vent 3.16	3.17	SE	MW-157	33	38	Y	37.11'	11.66' @ 1607	
Vent 3.16	3.17	SE	MW-158	100	110	Y	~~17.12'~~ @ 110.78 AC	17.12 @ 15.41	
Vent 3.16	3.17	SE	MW-159	140	150	Y		~~15.55~~ @ 1600	
		SE	MW-15D	15	20	Y	X AC		manhole cover has no bolt holes
		SE	MW-15S	4	10	Y	X AC		manhole cover has no bolt holes
Vent 3.16	3.17	SE	MW-160	280	300			13.70 @ 1555	no ~~bo~~ tubing
Vent 3.16	3.17	SE	MW-161	381	401	Y		16.09 @ 1547	
Vent 3.16	3.17	SE	MW-183	15	20		19.55'	5.49 1420	manhole needs bolts
	3-17	SE	MW-184	28	33	Y	32.22'	11.53' @ 1416	need low profile J plug vault not level ~~cannot remove PVC cap~~ need 2 bolts
	3.17	SE	MW-185 *	85	95	Y	95.20	17.27 @ 1410	Replace J plug. Cannot accept both no lb
	3.17	SE	MW-186	150	160	Y		14.86' @ 1406	
	3.17 09	SE	MW-187	280	300		~~12.50' @ 1400~~	12.50' @ 1400	no tubing. ~~Need wide J plug.~~ LOW PROFILE 2" ID SCHED. 80 PVC
Vent 3.16		SE	MW-188	12	17				
Vent 3.16		SE	MW-189	28	33				
	3-17	SE	MW-18D	15	20		18.75'	6.06 @ 9.19	tubing removed manhole no bolt holes
	3-17	SE	MW-18S	4	10		9.58'		tubing long manhole no bolt holes.

18S: vault cannot position relative to manhole cover. difficult to line up. need ONE bolt in manhole.

32.22 = ~~bo~~ MW-184

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval Top	Sreen Interval Bottom	Tubing midscreen Y/N (measured)	Total Depth of Well* (measured)	Water Level* (measured)	Comments/Observations
Vent 3.16	SE	MW-190	90	100				
	SE	MW-191	146	156				
	SE	MW-192	280	300				
3.17	SE	MW-20	35	40	Y	39.60	8.41 @ 1330	no red label tag. Need bolt
Vent 3.16	SE	MW-208	16	21				
	SE	MW-209	41	46				
	SE	MW-210	93	103				
	SE	MW-211	140	150				
	SE	MW-212	281	301				Grits vent 3.16
Vent 3.16	SE	MW-223	10	15				Vent 3.16
	SE	MW-224	25	30				Vent 3.16
	SE	MW-225	40	45				
	SE	MW-226	90	100				Seems to be under vehicle vent 3.16
Vent 3.16	SE	MW-227	145	155				Vent 3.16
Vent 3.16	SE	MW-241	281	301				
3-18	SE	MW-248	103	113	Y		18.76 @ 950	need low profile J Plug
3-18	SE	MW-27	30	35			5.93 @ 938	3.17 discarded tubing
3-18	SE	MW-28	25	30		29.69'	6.62 @ 924	tubing removed
3-18	SE	MW-29	25	30	Y	29.80'	5.92 @ 916	red label tag broken
3-18	SE	MW-52	147	157	Y	148.65'	18.18 @ 905	At ~~well~~ bolts need 2 bolts.
3-18	SE	MW-53	141	151	Y	152.22'	19.03 @ 926	
3-18	SE	MW-54	145	155	Y		18.07 @ 947	

Water Level Log - Former ABC Facility

	Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
				Top	Bottom	Y/N (measured)	(measured)	(measured)	
	3-18	SE	MW-64	25	30		30.47'	5.93 @ 0930	tubing removed
	3-17	SE	MW-77	36	40.5	Y	39.29	11.26' @ 1128	
Vent3-16	3-17	SE	MW-83	102	112	Y		17.91' @ 1526	casing higher than top of well vault.
	3-18	SE	MW-91	32.5	37.5	Y	38.93	11.52 @ 0914	need bolt
Vent3-16	3-17	SE	MW-94	24.5	29.5	Y	26.84	5.51' 1512	no manhole cover Need low prof. Sphe
Vent3-16	3-17	SE	MW-95	23	28		25.02	5.20' 1500	no tubing
		SE	2400 TALLEVAST RD					N/A	this is a spigot

* = measured feet below the top of the casing

3-18 MW-42 26.98 8.01 @ 15.32

Water Level Log - Former ABC Facility

	Date	Quadrant	Well ID	Sreen Interval Top	Sreen Interval Bottom	Tubing midscreen Y/N (measured)	Total Depth of Well* (measured)	Water Level* (measured)	Comments/Observations
		SW	EW-102	31	36			11.78'	
1108	3/16/09	SW	MW-100	25	30	Yes	29.80'	7.36'	pull 5ft up from Master flex
1540	3/16	SW	MW-101 needs low profile J-plug	53	58	yes	56.99'	10.44'	pull up 5"
~~1400~~		SW	MW-102	90	100	~~Yes~~			
		SW	MW-103	25	30				
1350	3/16	SW	MW-106 needs low profile J-plug	40	45	yes	44.58'	9.0'	pull 5ft up from Master flex
1350	3/16	SW	MW-112 needs low profile J-plug	76	86	yes	85.86'	20.65'	pull 5ft up from master flex
		SW	MW-117	37	42				
		SW	MW-118	20	25				
		SW	MW-119	31	36				
		SW	MW-120	20	25				
		SW	MW-121	18	23				
1400	3/16	SW	MW-122	21	26	yes			pull up 5'
1400	3/16	SW	MW-124	127	137	yes	138.52'	17.38'	pull up 5"

Airport property

SE	ID	DTW	TD	comments	date water levels taken
	MW-227	5.76'	156.59'	pull tubing up 5'	3/17/09
	MW-224	6.83'	30.07'	pull tubing up 5'	3/17/09
	MW-223	6.51'	15.10'	pull tubing up 5'	3/17/09
	MW-225	6.76'	44.84'	pull tubing up 5'	3/17/09
	MW-226	~~5.84~~ 7.70'	100.75'	pull tubing up 5'	3/17/09
	MW-241	5.97'	~~300 ft~~ > 300 ft	Tubing on bottom of well - pull up to middle of screen interval. (301 ft well)	3/17/09

Water Level Log - Former ABC Facility

	Date	Quadrant	Well ID (date of water level)	Sreen Interval Top	Sreen Interval Bottom	Tubing midscreen Y/N (measured)	Total Depth of Well* (measured)	Water Level* (measured)	Comments/Observations (loose well vault)
1350	3/16	SW	MW-126 needs low profile J-plug 3/17/09	27	32	yes	31.64'	9.29'	Ants in Vault/pull up 5 ft.
		SW	MW-129	103	113		104.85	21.65'	
		SW	MW-167	20	25				
		SW	MW-168	42	47				
		SW	MW-169	106	116				
		SW	MW-170	280	300				
		SW	MW-171	35	40				
		SW	MW-172	100	110				
		SW	MW-173	142	152				
		SW	MW-174	275	295				
		SW	MW-182	164	174				
		SW	MW-219	22	27				
1455	3/16	SW	MW-22 3/17/09	277	297	yes	299.51'	18.23'	Ants present/pull tubing up 4'
		SW	MW-220	39	44				
		SW	MW-221	97	107				
		SW	MW-222	133	143				
1455	3/16	SW	MW-23 3/17/09	152	172	yes	173.60'	21.61'	pull up 5'/No grout in bottom of vault
1500	3/16	SW	MW-233 3/17/09	90	100	yes	100'	21.83'	water in vault/pull up 5'
1540	3/16	SW	MW-24 needs low profile J plug 3/17/09	30.5	35.5	yes	34.34'	8.39'	pull up 5'
1405	3/16	SW	MW-240 3/17/09 need new low profile J plug	156.5	166.5	NO	168.0'	15.95'	pulled tubing to replace to tommorow
1445	3/16	SW	MW-25 3/17/09	36.4	43.4	yes	43.22	7.03'	pull up 5'
1555	3/16	SW	MW-30 needs low profile J-plug 3/17/09	23.5	28.5	yes	27.58'	6.36'	pull up 5'/lots of Ants present

3/17 Replaced Tubing & weight

Water Level Log - Former ABC Facility

initial well opening time / Date	Quadrant	Well ID (water level date/Time)	Sreen Interval Top	Sreen Interval Bottom	Tubing midscreen Y/N (measured)	Total Depth of Well* (measured)	Water Level* (measured)	Comments/Observations
	SW	MW-34	145	155				
	SW	MW-35	25	30				
1440 3/16	SW	MW-44 Needs new orange J-plug 3/17/09	142	152	yes	151.40'	23.86'	pull up 5"
1540 3/16	SW	MW-55 3/17/09	127	137	yes	138.61'	24.21'	pull up 5'
1310 3/16	SW	MW-56 3/17/09	145	155	Yes	156.78'	28.57'	Pull up 5'
	SW	MW-57	136	146				
	SW	MW-70	23	28		26.96'	8.33'	
1415 3/16	SW	MW-71 3/17/09	24	29	yes	28.35'	7.80'	pull up 5'
1102 3/16/09	SW	MW-73 3/17/09	22	27	Yes			needs bolt cut off/
1310	SW	MW-74 3/16/09 1325	27.5	32.5	Yes	32.40	5.44	Pull up 5'
	SW	MW-75	39.5	44.5				
1420 3/16	SW	MW-76 3/17/09	23	28	yes	27.13'	7.47'	pull up 4.5'/Ants present
1410 3/16	SW	MW-78 3/17/09	36	41	yes	39.86'	9.40	pull up 5'
1310	SW	MW-82 3/16/09 1320	36.5	41.5	Yes	42.30	10.85	Pull up 5'
1445 3/16	SW	MW-85 3/17/09	50	55	yes	54.54'	8.90'	pull up 5'
	SW	MW-87	36	41				
1310 3/16	SW	MW-88 3/17/09	76	86	Yes	84.60'	25.52'	water in well manhole, pull up 5' (pull 5ft up from Masterflex)
	SW	MW-98	33	38				Well pad covered in Vegetation (grass)
1120 3/16/09	SW	MW-99 3/17/09	71	81	Yes	79.60'	21.59'	*Vault full of Red Ants!!! * - Well Box collapsed
1425 3/16	SW	MW-9D 3/17/09	15	20	yes	19.79'	6.89'	pull up 5"
1425 3/16	SW	MW-9S 3/17/09	4	10	yes	~~8.9~~ 9.89'	6.92' pull up 3.5'/	water in vault/lots of Bull Ants!
	SW	8005 15TH ST E						

Water Level Log - Former ABC Facility

	Date	Quadrant	Well ID (date of water level)	Sreen Interval Top	Sreen Interval Bottom	Tubing midscreen Y/N (measured)	Total Depth of Well* (measured)	Water Level* (measured)	Comments/Observations
		SW	7851 15TH ST E	250	480				
		SW	Staff Gauge-1						
1050	3/16/09	SW	Staff Gauge-5 3/18/09					< Ø	Water level below 0"
		SW	Staff Gauge-7						
		SW	Stilling Well-2						
		SW	Stilling Well-5						
1530	3/16	SW	TW-84-A 3/17/09	2	12	yes	11.69	8.97	stick up loose / pull tubing 5'
1530	3/16		TW-84-B	?	?	yes	11.77	6.17'	pull tubing up 5'

* = measured feet below the top of the casing

			total Depth	DTW		
SE Quad ↓	3/17	MW-58	151.87"	23.32'	* Needs new well cap (orange)	SE Quad ↓ date water levels taken
MW-211		10.32'	151.99'		pull up tubing 5'	3/17/09
MW-212		6.38'	> 300 ft		Install new tubing in well / Pull up 10"	3/17/09

SE quad	DTW	TD	comments	
MW-190	15.65'	100.59'	pull tubing up 5ft. / Needs low profile J-plug.	3/17/09
MW-188	5.69'	17.32'	pull tubing up 5 ft. / Needs low profile J-plug.	3/17/09
MW-189	9.96'	32.19'	pull tubing up 5ft. / Needs low profile J-plug.	3/17/09
MW-191	13.04	~~157.74'~~	No tubing in well = Installed tubing	3/17/09
MW-192	9.91'	~~157.74'~~ > 300 ft.	pull tubing up 5' / total Depth > 300 ft. need deeper (longer) water level indicator (need 2 1/2" J-plug (low profile)	3/17/09
MW-208	4.49'	21.23'	pull tubing up 5' / Black Ants present / needs new orange J-plug	3/17/09
MW-209	8.21'	45.14'	pull up tubing 5' / Needs new orange J-plug	3/17/09
MW-210	11.32'	103.42'	pull tubing up 5' / Need orange J-plug.	3/17/09

outside of fence 11.70' east

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/18	OS	DW-1	82	92	Y		16.33	needs bolts/one
3/17	OS	EXU-1 (EW-101)	15	30	N/A		6.57	
3/17	OS	EW-103	5	20	—	—	6.25	northside of casing
3/17	OS	EW-104	26	31	—	—	7.61	north side of casing
3/17	OS	EW-105	5	25	—	—	6.67	
3/17	OS	EW-106	26	31	—	—	8.50	
3/18	OS	EW-107	7	27	N/A		5.94	
3/17	OS	EXL-1 (EW-108)	35.5	40.5	N/A		11.46	northside of casing
3/18	OS	EW-109	5	25	N/A		6.03	
3/18	OS	EW-110	30	35	N/A		6.48	
	OS	EW-UAFG-1	98	108	—	—	—	not accessible
3/17	OS	IWI-1	100	110	yes	110.10	20.46	two bolts good spring
3/17	OS	IWI-2	162	172	yes	172.19	22.93	two bolts good spring
3/17	OS	MW-10	15	20	yes.	19.99	7.97	no place for bolts
3/18	OS	MW-11	15	20	Yes		7.78	no place for bolts
3/18	OS	MW-12	15	20	Y		7.45	no place for bolts
	OS	MW-123	375	395	transducer			
	OS	MW-127	100	110	transducer			
	OS	MW-128	140	150	transducer			
3/18	OS	MW-130	100	110	Yes		21.19	
3/18	OS	MW-134	103	113	Yes		21.30	
	OS	MW-19	277.5	297.5	transducer			
3/17	OS	MW-252	145	155	yes	156.75	23.31	two bolts

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/17/09	OS	MW-253	100	110	Y	110.30'	20.42'	
	OS	MW-254 (MW-BT-1)	24	29	Y	29.15	7.76'	
	OS	MW-3	5	20	Y	17.50'	6.71'	
	OS	MW-36	23	28	Y	27.65'	8.24	
	OS	MW-37	35.5	40.5	Y	39.87'	13.18'	
	OS	MW-38	23	28	Y	27.25'	7.60'	
	OS	MW-39	35.5	40.5	Y	39.60'	12.60'	
	OS	MW-4	4	19	Y	18.40	7.65'	
	OS	MW-40	23	28	Y	27.20	7.74'	
	OS	MW-41	35.5	40.5	Y	40.00'	12.76	
	OS	MW-42	23	28	Y	26.82	8.00	
	OS	MW-43	35.5	40.5	Y	40.00'	13.04'	
	OS	MW-5	4	10	Y	9.85'	8.07'	
	OS	MW-58	140	150	Y	149.60'	23.33'	
	OS	MW-6	4	10	Y	9.88'	8.01'	
	OS	MW-72	23.5	28.5	Y	28.00	6.85'	
	OS	MW-7D	15	20	Y	19.54'	6.86'	
	OS	MW-7S	4	10	Y	9.70'	6.95'	
	OS	MW-80	36	41	Y	ft. 40.65	11.89	

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
	OS	CO-B1D	27	30				
	OS	CO-B4D	27	30				
	OS	CO-C1D	26	30				
	OS	CO-D1D	26	30				
3/18	OS	MW-32	24.5	29.5	Y		7.39	
3/18	OS	MW-33	35.5	40.5	~~12.43~~ Y		12.43	

* = measured feet below the top of the casing

	Calibration	
	Monday	Tuesday
	Water Level	Water Level
Well ID		
SW Group		
NW Group		
SE Group		
NE Group		

Water Level Log - Former ABC Facility

Date water level taken	Quadrant	Well ID	Sreen Interval		Tubing midscreen	Total Depth of Well*	Water Level*	Comments/Observations
			Top	Bottom	Y/N (measured)	(measured)	(measured)	
3/17/09	OS	MW-84	35.5	40.5	Y	40.89"	12.06"	
	OS	MW-8D	15	20	Y	18.13"	6.80"	
	OS	MW-8S	4	10	Y	10.05"	6.84"	
	OS	PZ-LSAS-1	30	35	Y	35.20"	8.28"	
	OS	PZ-LSAS-2	30	35	Y	35.95"	9.20"	
	OS	PZ-LSAS-3	29	34	Y	33.35"	9.26"	
	OS	PZ-LSAS-4	30	35	Y	35.16"	9.0"	
	OS	PZ-LSAS-5	28.3	33.3	Y	32.63"	8.95"	
	OS	PZ-LSAS-6	30	35	Y	35.54"	10.12"	
	OS	PZ-LSAS-7	28	33	Y	32.20"	9.15"	
	OS	RW-1	15	20	Y	19.19"	8.05"	
	OS	RW-2	15	20	Y	19.70"	7.54"	
	OS	~~Staff Gauge-2~~	/	/	Y	/	/	
	OS	~~Stilling Well-1~~	/	/	Y	/	/	
	~~OS~~	~~TW-84-B~~	2	12	Y	/	/	
	OS	CO-A1D	27	30	X	29.37"	8.23"	

3/16/2009 RPT

Personnel: R. Tuttle (Arcadis)
Task: Transducer download and desiccant replacement
Equipment: Laptop

06:00 Leave Tampa office

07:45 Onsite, waiting for health and safety meeting

08:00 Health and safety meeting conference call

08:15 Begin transducer download and dessicant replacement

+Well ID: MW-19
Manual DTW: 20.67 @ 16:23
Download test: Yes
Troll DTW: 5.093' @ 16:23

+Well ID: MW-36
Manual DTW: 8.37' @ 16:43 RT
Download test: ~~Yes~~ RT NO
Troll DTW: Could not download transducer would not communicate w/ laptop

RPT 3/16/2009

+ Well ID: MW-37
Manual DTW: 13.32' @ 16:32
Download test: Yes
Troll DTW: 11.025 @ 16:32

Well ID: MW-116 DTB 24.80'
Manual DTW: 3.68' @ 13:32
Download test Yes

+ Well ID: MW-123
Manual DTW 20.84' @ 16:59
Download test: Yes
Troll DTW: 2.497' @ 16:59

+ Well ID: MW-127
Manual DTW: 20.46 @ 16:40
Download test: Yes
Troll DTW: 3.033 @ 16:40

+ Well ID: MW-128
Manual DTW: 24.30 @ 16:51
Download test: Yes
* Troll DTW: 0.056' @ 16:51

+ Well ID: MW-171 DTB: 39.25'
Manual DTW: 9.04 @ 14:28
Download test: Yes

* Lowered troll deeper into well because of DTW above troll. Troll DTW now 2.033'

3/16/2009 RPT

Well ID: MW-173 DTB: 152.10'
Manual DTW: 15.00' @ 14:22
Download test: Yes

Well ID: MW-172 DTB: 109.55'
Manual DTW 15.98' @ 14:26
Download test Yes

Well ID: MW-174 DTB: 297.00'
Manual DTW: 11.05 @ 14:14
Download test: Yes

Well ID: MW-178 DTB: 36.35'
Manual DTW: 15.14' @ 13:08
Download test: Yes

Well ID: MW-179 DTB: 102.20'
Manual DTW: 16.36' @ 13:11
Download test: Yes

Well ID: MW-180 DTB: 154.80'
Manual DTW: 17.31' @ 13:13
Download test: Yes

RPT 3/16/2009

Well ID: MW-181 DTB: > 300'
Manual DTW: 13.54 @ 13:17
Download test: Yes

Well ID: MW-219 DTB: 27.00'
Manual DTW 5.02' @ 14:51
Download test: Yes

Well 20 MW-220 DTB: 43.00'
Manual DTW. 9.35' @ 14:50
Download test: Yes

Well ID. MW-221 DTB: 105.75'
Manual DTW: 23.31' @ 14:48
Download test: Yes

Well ID: MW-222 DTB: 142.50'
Manual DTW: 17.86 @ 14:54
Download test: Yes

+ Well ID: P2-LSAS-7
Manual DTW: 9.19' @ 16:28
Download test: Yes
Troll DTW: 14.460' @ 16.28
+ Downloaded and DTW's collected on 4/2/2009

3/16/2009 RPT

Well ID: Still Well-2 (SW-2)
Tallevast Road Ditch DTW - 2.56 / Staff 1.78
Manual DTW: Transducer is not in well
Download test: will contact L. North to notify

Well ID: Stilling Well-5 (SW-5)
Golf Course Pond
Manual DTW: NA; Dry
Download test: Yes

Well ID: MW-121 DTB: 23.00
Manual DTW: 5.39' @ 14:21
Download test: Yes
Test stopped @ 14:36
New test started @ 14:45

Well ID: MW-98 DTB: 37.40'
Manual DTW: 6.46' @ 15:14
Download test: Yes
Test stopped @ 15:14
New test started @ 15:25

All transducers were synced to laptop time

RPT 3/17/2009

Personnel: R. Tuttle (Arcadis)
Task: Transducer download and dessicant replacement
Equipment: Laptop

06:30 Leave Tampa

07:30 Onsite

08:00 Health and safety meeting continue transducers download

Well ID: MW-141 DTB: 20.00'
Manual DTW: 5.72' @ 08:48
Download test: yes
Test stopped @ 08:50
New test started @ 09:00

Well ID: MW-142 DTB: 31.00'
Manual DTW: 5.76' @ 08:49
Download test: yes
Test stopped @ 08:53
New test started @ 09:05

3/17/2009 RPT

Well ID: MW-143 DTB: 105.90'
Manual DTW: 17.91' @ 09:10
Test stopped @ 09:11
New test started @ 09:20
Download test: yes

Well ID: MW-144 DTB: 66.65'
Manual DTW: 16.31' @ 08:58
Download test: yes
New test started @ 09:10
Test stopped @ 08:57

Well ID: MW-145 DTB: > 300'
Manual DTW: 13.70' @ 09:01
Download test: yes
Test stopped @ 09:02
New test started @ 09:15
(Needs tubing)

Well ID: MW-103 DTB: 30.16'
Manual DTW: 6.70' @ 09:27
Download test: yes
Test stopped @ 09:30
New test started @ 09:40
(Needs tubing)

RPT 3/17/2009

Well ID: MW-102 DTB: 100.00'
Manual DTW: 20.03' @ 09:29
Download test: yes
Test stopped @ 09:26
New test started @ 09:40

All transducers were synced to laptop time.

These following transducer downloads were completed on 3/16/2009:

Well ID: MW-167 DTB: 24.48'
Manual DTW: 5.45' @ 11:16
Download test: yes
Test stopped @ 11:15
New test started @ 11:30

Well ID: MW-168 DTB: 46.42'
Manual DTW: 8.81' @ 11:23
Download test: yes
Test stopped @ 11:21
New test started @ 11:30

3/17/2009 RPT

Well ID: MW-170 DTB: >300'
Manual DTW: 17.01' @ 11:27
Download test: yes
Test stopped @ 11:28
New test started @ 11:40

Well ID: MW-182 DTB: 172.85'
Manual DTW: 16.95' @ 11:36
Download test: yes
Stop test @ 11:36
New test started @ 11:50

Well ID: MW-169 DTB: 115.30'
Manual DTW: 15.11' @ 11:42
Download test: yes
Stop test @ 11:42
New test started @ 12:00

Transducers @ MW-167, MW-168, MW-169, MW-170, MW-182 were all downloaded on 3/16/2009

Check possible private well for G. Bowles
TD: 17.47' DTW: 6.74'

Water Level Log - Former ABC Facility

Date	Quadrant	Well ID	Sreen Interval Top	Sreen Interval Bottom	Tubing midscreen Y/N (measured)	Total Depth of Well* (measured)	Water Level* (measured)	Comments/Observations
4/13/09	SE	MW-156	15	20			5.32	
	SE	MW-157	33	38			12.42	
	SE	MW-158	100	110			17.37	
	SE	MW-159	140	150			16.56	
	SE	MW-160	280	300			14.37	
	SE	MW-161	381	401			15.69	
	SE	MW-183	15	20			5.58	
	SE	MW-184	28	33			12.27	
	SE	MW-185	85	95			17.16	
	SE	MW-186	150	160			16.12	
	SE	MW-187	280	300			13.68	NO WELL CAP
	NE	MW-136	98.5	108.5			18.23	
	NE	MW-137	17	22			6.06	
	NE	MW-138	38	43			12.23	
	NE	MW-139	147	157			17.61	
	NE	MW-140	280	300			15.08	
	NE	MW-141	15	20			6.02	
	NE	MW-142	26	31			6.10	
	NE	MW-143	96	106			18.11	
	NE	MW-144	140	150			17.44	
	NE	MW-145	280	300			14.66	
	NE	MW-146	19.5	24.5			6.29	
	NE	MW-147	29.5	34.5				could not locate
	NE	MW-148	95.5	105.5			18.49	
	NE	MW-149	145	155			17.64	
	NE	MW-150	285	305				could not locate
	NE	MW-193	90	100			14.94	
	NE	MW-194	145	155			13.73	
	NE	MW-195	280	300			11.10	
	NE	MW-204	11	16			5.95	
	NE	MW-205	30	35			11.75	
	NE	MW-206	90	100			14.66	
	NE	MW-207	281	301			11.05	
	NE	MW-213	15	20			5.08	
	NE	MW-214	30	35			12.34	
	NE	MW-215	90	100			17.89	
	NE	MW-216	140	150			17.03	
	NE	MW-217	280	300			12.67	
	NE	MW-218	365	385			15.68	
	NE	MW-234	15	20			5.15	
	NE	MW-235	35	40			11.95	
	NE	MW-236	90	100			18.30	uneven TOC
	NE	MW-237	145	155			16.37	
	NE	MW-238	280	300			13.62	uneven TOC
	NE	MW-249	88	98			15.57	well cap off & filled with Silica
	NE	MW-250	90	100				Well buried with
		MW-96					16.24	tubing extracted
		staff Gauge 6					Dry	

4/15/09

DTW 12:10 MD/RT

MW -82 10.38

MW - 56 29.20

~~MW - 88 29.64~~ 29.64

MW - 74 5.60

HACH Result for MW-213

0.85 (5x dilution

SW-3 1500

4.79

ARCADIS

Attachment C

Chain of Custody Forms

R625-EDC-001214-0

Serial Number 12208

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 16

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B/8260B_SIM	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/18/09	1100	MW-111	G	X						3	
	1230	MW-74								4	
	1405	MW-104								4	
	1630	MW-82								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3.19.09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000	Amanda Hanson	3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	3/19/09	1115	YES ○ NO ○		28258	3.6°C CH07	

660-28258

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12211

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 16e0-28293
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: Kathy Thalman	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (12)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	REMARKS
								HCl	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED
3/19/09	1230	MW-110	G	X				4		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945		3.20.09	1100
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945	Amanda Harrison	3/20/09	1100

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/20/09	1100	YES ○ NO ○		16e0-28293	3.5°C CU-07	

TAL8240-660 (1207)

R625-EDC-0012140

Serial Number U6424

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring/Annual | Page #1 | Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone:
Fax:

6660-28361

PROJECT REFERENCE: Tallevast - IRAP/Annual	PROJECT NO.: B003805S.0020.0002	PROJECT LOCATION (STATE): FL	PAGE: 1 OF 2
SAMPLER'S SIGNATURE	P.O. NUMBER:	CONTRACT NO.	STANDARD REPORT DELIVERY: ●
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157	DATE DUE:
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE): ○
CLIENT ADDRESS: 3350 Buschwood Park Dr, Suite 100, Tampa, FL			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...))

REQUIRED ANALYSIS: IRAP

PRESERVATIVE: HCl | None | Nitric Acid | HCl

NUMBER OF CONTAINERS SUBMITTED: 8260B | 8260B_SIM (Bromide) 300.0_28D | 6010B | 8260B_SIM

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX	HCl	None	Nitric Acid	HCl	REMARKS
3/23/09	1015	MW-91	G X	4	1	—	—	
	1548	MW-72		4	1	—	—	
	1702	MW-80		4	1	—	—	
	—	DUP-02		4	1	—	—	
	1425	EB-01		4	1	1	—	
	1615	MW-95		—	—	—	4	
	0952	MW-47		4	1	—	—	
	0945	MW-63		3	1	—	—	
	1048	MW-68		4	1	—	—	
	1258	MW-69		4	1	—	—	
	1659	MW-85		4	1	—	—	
	1143	MW-100		4	1	—	—	

RELINQUISHED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE 3/24/09	TIME 1305	RELINQUISHED BY: (SIGNATURE)	DATE 3/24/09 TIME 1420
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE 3/24/09	TIME 1305	RECEIVED BY: (SIGNATURE) Amanda Hamilton	

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hamilton	3/24/09	1420	YES ○ NO ○		28361	2.6°, 2.9°, 3.4°	CLIENT

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12223

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring/Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B HCl	REQUIRED ANALYSIS: 8260B-SIM 300.0-28D (Barium) NONE	REQUIRED ANALYSIS: 6010B NITRIC ACID PRESERVATIVE	REMARKS
3/23/09	1642	MW-158	G	X				4	1	—	
	1045	MW-239						4	1	—	
	1550	MW-44						4	1	—	
	1342	MW-71						4	1	—	
	1034	MW-98						4	1	—	
	1230	MW-43						4	1	—	
	1635	MW-57						4	1	—	
	1300	MW-32						4	1	—	
	1215	MW-33						4	1	—	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305		3/24/09	1420
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09			3/24/09	1420

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/24/09	1420	YES ○ NO ○		28361	2.6, 2.9 & 3.4°C	CL-07

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 160-28361 Logged in TALS By Amanda Hanson

Cooler Received on (date) 3/24/09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.6, 2.9, & 3.4 Degrees Celsius CH07

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

   All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

   All containers pH.< 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 1

   All containers pH < 2 ? N/A If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

   All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 21

   All containers pH between 6 and 8? N/A If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? NO

   If yes, which samples? _____

R625-EDC-001214-0

Serial Number 12230

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28392

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thelman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (4)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	8260B 8260B - SIM (HCl PRESERVATIVE)	REMARKS
3/24/09	1121	MW-13D	G	X				4	
	1200	MW-13S						4	
	1230	MW-19B						4	
	1300	MW-19D						4	
	1140	MW-20D						4	
	1015	MW-20I						4	
	1120	MW-20S						4	
	1602	MW-22D						4	
	1615	MW-20A						4	
	1520	MW-20B						4	
	1505	MW-20C						4	
	1630	MW-20D						4	

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin Dayle	3/25/09	1340		3/25/09	1520
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1341	Amanda Garner	3/25/09	1500

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-25-09	1500	YES ○ NO ○		1000 - 28392	3.1°C, 3.6°C	cw-OT

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12231

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28392

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) *INDICATE*	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 82608 82603_SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/24/09	1432	MW-14S	G	X						4	
	1514	MW-14D								4	
	1632	MW-75								4	
	1733	MW-252								4	
	1121	Trip Blank								3	Added per client NG 3-26-09

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin Dwyer	3/25/09	1340		3/25/09	1500
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-25-09	1500	YES ○ NO ○		660-28392	3.1°C 3.6°C	on ice

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12234

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location

Phone: 6660-28429
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3136	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	8260B - SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/25/09	1110	MW-223	G	X							4	
	1150	MW-224									4	
	1010	MW-225									4	
	1053	MW-226									4	
	0956	MW-241									4	
	1440	MW-8D									4	
	1545	MW-8S									3	
	—	DUP-04									4	
	1440	MW-8D MSD									4	
	1440	MW-8D MS									4	
	1515	EB-01									4	
	1040	MW-21									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350	YES ○ NO ○		660-28429	3.4°C	CW-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12235

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/25/09	1551	MW-59	G	X							4	
	1353	MW-61									4	
	0929	MW-109									4	
	1611	MW-173									4	
	1433	MW-174									4	
	1525	MW-121									4	
	1655	MW-27									4	
	1641	MW-54									4	
	1530	MW-248									4	
	1510	MW-105									4	
		Trip Blank									3	Added per client NLT 3-26-09

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350	YES ○ NO ○		660-28429	3.4°C	CW-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12240

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28462

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B	8260B_SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/26/09	0936	MW-152	G	X							4	
	1014	MW-154									4	
	1050	MW-153									4	
	1128	MW-151									4	
	1332	MW-242									4	
	1430	MW-243									4	
	1512	MW-244									4	
	1557	MW-175									4	
	1445	MW-133									4	
	1625	MW-29									4	
	1650	MW-137									4	
	1600	MW-136									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			[signature]	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
[signature]	3-27-09	1725	YES ○ NO ○		60-28462	CW-07 1.8°C, 2.2°C, 1.5°C, 2.2°C	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12241

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #2

28462

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B_SIM	REQUIRED ANALYSIS: PRESERVATIVE HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/26/09	1615	MW-13S	G	X							4	
	1125	MW-18S									4	
	1115	MW-18D									4	
	1455	MW-19S									4	
	1030	MW-19D									4	
	1105	MW-19A									4	
	0920	MW-22S									4	
	1522	MW-30									4	
	1522	MW-30MS									4	
	1522	MW-30MSD									4	
	1332	MW-5S									4	
	1039	MW-17D									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Dina Kimel	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-27-09	1725	YES ○ NO ○		660-28462	1.8°C, 2.2°C, 1.5°C, 2.2°C	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12242

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #3

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049
28462

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 3 OF

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (4)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 82603	82603-SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/26/09	1220	MW-129	G	X							4	
3/26/09	1658	FB-02	G	X							4	
3/27/09	1030	MW-142	G	X							3	
	0925	MW-139									4	
	0910	MW-140									4	
	1150	MW-64									4	
	1020	MW-52									4	
	1240	MW-96									4	
	1250	MW-144									4	
	1335	MW-141									4	
	0910	MW-246									4	
	0940	MW-245									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 660-28462	COOLER TEMP. UPON RECEIPT 1.8°C, 2.2°C, 1.5°C, 2.2°C	LABORATORY REMARKS
	3-27-09	1725					

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12247

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #4

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28462

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO. #1	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME SEE PAGE	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) *INDICATE*	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/27/09	1129	MW-45	G	X							4	
	0838	MW-247									4	
	1049	MW-56									4	
	1328	MW-172									4	
	1122	MW-88									4	
	0927	MW-73									4	
	—	DUP-06									4	
	1500	MW-28									4	
	1502	MW-53									4	
	1502	MW-53 MS									4	
	1502	MW-53 MSD									4	
↓	0930	FB-03									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT °	LABORATORY REMARKS °
	3-27-09	1725	YES ○ NO ○		660-28462	CW-07 1.8C, 2.2C, 1.5C, 2.2°C	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12206

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location
Phone:
Fax:

660 - 28503

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual Sampling	30038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260 B 8260 SIM	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30/09	1539	MW-112	G	✓						4	
	1410	MW-220								4	
	1335	MW-221								4	
	1036	MW-103								4	
	1456	~~MW-219~~ MD MW-219								4	
	0955	MW-102								4	
	1621	MW-126								4	
	1255	MW-222								4	
	1115	MW-99								4	
	1457	MW-48								4	
	1349	MW-67								4	
↓	1051	MW-96	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1450
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1450

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1450	YES ○ NO ○		660 - 28503	2.5°C, 2.9°C, 3.1°C	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 06425

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: LCEO-28503
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLEVAST - ANNual sampl	B003855.0020.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. DR., Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT....)

REQUIRED ANALYSIS: 8260B; 8260B SIM; HCL PRESERVATIVE

PAGE 2 OF 4

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30/09	1051	MW-86 MS/MSD	G	Y				4	
	~~1057~~	~~MW-86 MSD~~ MD DUP-07						4	
	1145	MW-39						4	
	1115	MW-38						4	
	1335	MW-147						4	
	1400	MW-150						3	
	0910	MW-145						4	
	1100	MW-149						4	
	0915	MW-143						4	
	1020	MW-148						3	
	1010	MW-146						4	
	1020	MW-114						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320	Amanda Harrison	3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430	YES ○ NO ○		LCEO-28503	2.5°C, 2.9°C, 3.1°C	CW-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 06427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling #3

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28503
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual Sampling	B0038055.0022.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: Arcadis	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. DR #100 Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B 8260B SIM	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30/09	1510	MW-51	G	X						4	
	1500	MW-26								4	
	1610	MW-107								4	
	1650	PW-84								4	
	1606	MW-94								4	
	1042	IWI-1								4	
	1340	MW-12								4	
	0951	IWI-2								4	
	1422	MW-10								4	
	1521	MW-83								4	
	1125	EW-UFA6-1								4	
↓	1635	MW-156	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320	Amanda Harrison	3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430	YES ○ NO ○		660-28503	2.5-2.9°C, 3.1°C on-ice	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12220

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling #4

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 0160-28503
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLevast - Annual Sampling	B003855.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B SIM	PRESERVATIVE: HCL	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30	1618	MW-157	G	X							4	
	1450	MW-159									4	
	1805	MW-160									4	
	1500	MW-161									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430	YES ○ NO ○		160-28503	2.5°C, 2.9°C, 3.1°C	CW-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12253

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 5

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	8260B SIM	HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	0905	MW-163	G	X							4	
	1030	MW-166									4	
	1111	MW-162									4	
	1515	MW-62									4	
	1640 ~~1410~~	MW-50									4	
	1415	MW-92									4	
	1050	MW-165									4	
	1000	MW-97									4	
	0910	MW-164									4	
	1035	MW-150									4	
	1410	MW-46									4	
V	1505	MW-93	V	V							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4/1/09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-1-09	1300			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ○ NO ○		660-28537	2.1°C, 2.3°C, 2.0°C	CW-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12265

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAllevast - Annual	B003805.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 5

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B 8260 Sim	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	1110	MW-155	G	X						4	
	0942	MW-20								4	
	1555	MW-135								4	
	1620	MW-186								4	
	1437	MW-169								4	
	1010	8005 15th St E (PW-102)								4	
	0944	MW-240								4	
	1130	MW-70								4	
	1056	MW-120								4	
	0930	MW-117								4	
	1131	MW-119								4	
	1400	MW-183								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4.1.09	1302			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ○ NO ○		660 -		

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12252

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAllevast - Annual	B0038055.0026.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr. #100, TAmpA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 5

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260 B / 8260 Sim	REQUIRED ANALYSIS: HAC PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	1452	MW-184	G	X						4	
	1315	MW-189								4	
	1318	MW-168								4	
	1340	MW-188								4	
	1002	MW-118								4	
	1354	MW-167								4	
	1524	MW-185								4	
	1520	MW-191								4	
	1520	MW-191 MS								4	
	1520	MW-191 MSD								4	
	1448	MW-192								4	
↓	1656	MW-34	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-1-09	1300			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ○ NO ○		660		

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12255

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055-0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 5

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B 8260 SIM	PRESERVATIVE: HCL	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	1521	MW-182	G	X						4	
	—	DUP-08								4	
	1652	MW-190								4	
	1624	FB-033109								4	
	1403	MW-251								4	
	1735	MW-31								4	
	1403	MW-251 MS								4	
	1403	MW-251 MSD								4	
	—	DUP-9								4	
	1534	MW-155								4	
	0923	MW-125								4	
	1052	MW-176								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4.1.09	1302			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ○ NO ○				

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12257

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0026.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 5 OF 5

STANDARD REPORT DELIVERY (X)
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	8260B Sim	HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	1121	MW-177	G	X							4	
↓	0932	MW-115	↓	↓							4	
4/1/09	0730	7851 15th St. E (PW-47	G	X							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-1-09	1300			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ( ) NO ( )		660-		

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12263

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6600-28569
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	80038055.0026.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 4

STANDARD REPORT DELIVERY ⊗

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B 8260 SIM	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/1/09	1147	MW-65	G	X						4	
	1303	MW-55								4	
	1059	MW-106								4	
	1525	TW-84A								4	
	1552	MW-232								4	
	0936	MW-132								4	
	1338	MW-229								4	
	0902	MW-79								4	
	1015	MW-175								4	
	1455	MW-231								4	
	1055	MW-17D								4	
↓	1012	MW-124	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4.2.09	1140			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	4-2-09	1410	YES ○ NO ○		6600-28569	5.0°, 3.0°, 3.5°C	CLO7

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12272

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Busohwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B 8260B Sim	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/1/09	1005	MW-66	G	X						4	
	1445	MW-16S								4	
	1445	MW-16D								4	
	1225	PW-57								4	
	—	DUP-10								4	
	1050	MW-89								4	
	1130	MW-113								4	
	—	DUP-12								4	
	1637	MW-60								4	
	—	FB-040109								4	
	1558	TW-84B								4	
↓	1412	MW-230	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4-2-09	1410
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-2-09	1140	Amanda Harrison	4-2-09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	4-2-09	1410	YES ○ NO ○		28569	5.0°C, 3.0°C, 5.5°C	CU-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12273

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast – Annual	80038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260 B	REQUIRED ANALYSIS: 8260 SIM	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/1/09	1153	MW-179	G	X							4	
	1536	MW-181									4	
	1536	MW-181 MS									4	
	1536	MW-181 MSD									4	
	1230	MW-178									4	
	0951	MW-180									4	
	0950	MW-116									4	
	1535	MW-131									4	
	0910	MW-90									3	
	0910	MW-90 MS									3	
	0910	MW-90 MSD									3	
↓	1035	MW-49	↓	↓							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4.2.09	1410
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-2-09	1140	Amanda Harrison	4-2-09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	4-2-09	1410	YES ○ NO ○		28569	5.0°, 3.0°, 3.5°	CL07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12264

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ⊘

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	8260 B 8260 Sim	HCl PRESERVATIVE	REMARKS
								NUMBER OF CONTAINERS SUBMITTED		
4/1/09	1405	MW-24	G	X				4		
	1405	MW-24 MS						4		
	1405	MW-24 MSD						4		
	—	DUP-11						4		
	1158	MW-101						4		
	1040	MW-209						4		
	1035	MW-208						4		
	1651	MW-187						4		
	1536	MW-210						4		
	1140	MW-211						4		
↓	1200	MW-212	↓	↓				4		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4.2.09	1410
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-2-09	1140	Amanda Hanson	4/2/09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	4-2-09	1410	YES ○ NO ○		28569	5.0°, 3.0°, & 5.5°C	CU-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12260

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055-0020-00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSIS: 8260B; 8260 Sim; HCl PRESERVATIVE

PAGE 1 OF 4

STANDARD REPORT DELIVERY (10)

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1020	MW-4	G	X				4	
4/1/09	1655	MW-7S						4	
4/1/09	1640	MW-7D						4	
4/2/09	1055	FB-11						4	
	1215	MW-3						4	
	1325	RW-2						4	
	—	FB-040209						4	
	1400	DW-1						4	
	1400	DW-1 MS						3	
	1400	DW-1 MSD						3	
	1145	FB-09						3	
V	1212	MW-22	V	V				4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McMulty	4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1895	YES ( ) NO ( )		660-28587	1.9°C, 2.1°C, 2.4°C, 2.7°C	cer-07 0° 0°

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12262

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Talkvast - Annual	B003805.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALHEIMER	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalheimer@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. DR. #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 4

STANDARD REPORT DELIVERY (X)
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260 B / 8260 Sim	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1015	MW-233	G	X						4	
	1017	MW-122								4	
	0924	MW-78								4	
	0938	MW-9S								4	
	0857	MW-9D								4	
	1107	MW-25								4	
	—	DUP-15								4	
	1444	PZ-LSAS-7								4	
	—	DUP-13								4	
	1203	RW-1								4	
	1115	FB-10								4	
↓	1110	PZ-LSAS-2	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845	YES ( ) NO ( )		660—	1.9°C, 2.1°C, 2.4°C, 2.7°C	Cx 2 07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12221

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 4

STANDARD REPORT DELIVERY ⊗

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260 B	8260 SIM	HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1115	PZ-LSAS-1	G	X							4	
	835	PZ-LSAS-3									4	
	0956	PZ-LSAS-4									4	
	0945	PZ-LSAS-5									3	
	1458	MW-123									4	
	1458	MW-123 MS/MSD									4	
	1346	MW-5									4	
	1454	MW-6									4	
	—	DUP-14									4	
	1100	1201 Tallevast Rd									4	
	0955	MW-197									4	
	0851	MW-196									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845	YES ○ NO ○		660-	1.9°C, 2.1°C, 2.4°C, 2.7°C	Cu-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12261

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0090.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk Dr # 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ⊗

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260 B / 8260 Sim	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1140	1107 Tallevast Road	G	X						4	
	1030	7561/7571 15th St. E								4	
	1609	MW-84								4	
	1609	MW-84 MS								4	
↓	1609	MW-84 MSD								4	
4-2-09	1445	MW-11 * CW 4-2-09								4	* Rec'd sample not on COC written in by CW 4-2-09
↓	1545	PZLSAS-6 * CW 4-2-09								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			

CW-07

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845			660	1.9°C, 2.1°C, 2.4°C, 2.7°C	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12351

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location

Phone: 6060-28745
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
ABC Facility	B003805.0020	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Ryan Suttle	Task 00001	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	(813)903-3138	(813)932-9514
CLIENT NAME	CLIENT E-MAIL	
Arcadis	Kathy.Thalman@arcadis-us.com	

CLIENT ADDRESS: 3350 Buschwood Park Drive Ste#100 Tampa, FL 33618

COMPANY CONTRACTING THIS WORK (if applicable): Lockheed Martin

PAGE 1 OF 2

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ⊘

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B/CSTM	REQUIRED ANALYSIS: 6010B Dissolved Fe, Mn	REQUIRED ANALYSIS: 6010B Total Fe, Mn	REMARKS
		PRESERVATIVE						HCl / Ice	HNO3 / Ice	HNO3 / Ice	
		NUMBER OF CONTAINERS SUBMITTED									
4/13/09	10:15	MW-216	G	X				4			3 day ~~Maximum~~ RT TAT
4/13/09	10:16	MW-217	G	X				4			
4/13/09	11:12	MW-215	G	X				4			
4/13/09	11:18	MW-214	G	X				4	1	1	
4/13/09	12:13	MW-213	G	X				4	1	1	
4/13/09	14:45	MW-235	G	X				4			
4/13/09	14:57	MW-234	G	X				4	1	1	
4/13/09	16:11	MW-249	G	X				4			
4/13/09	16:34	2411 Tallevast Rd	G	X				4			
4/14/09	09:38	MW-238	G	X				4			
4/14/09	09:05	MW-236	G	X				4			
4/14/09	10:09	MW-237	G	X				4			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	4/10/9	1200	Ryan Suttle	4/14/09	15:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Amanda Hanson	4-14-09	1500			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	4-14-09	1500	YES ○ NO ○		6060-28745	1.9°C CU-07	

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 13555

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28745
Fax:

PROJECT REFERENCE: BOA ABC Facility	PROJECT NO.: B003805S.0020	PROJECT LOCATION (STATE): FL	MATRIX TYPE
SAMPLER'S SIGNATURE: Ryan Sottle	P.O. NUMBER: Task 00001	CONTRACT NO.	
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: (813) 963-3138	CLIENT FAX: (813) 932-9514	
CLIENT NAME: Arcadis	CLIENT E-MAIL: Kathy.Thalman@arcadis-us.com		
CLIENT ADDRESS: 3350 Buschwood Park Drive Ste# 100 Tampa, FL 33618			
COMPANY CONTRACTING THIS WORK (if applicable): Lockheed Martin			

REQUIRED ANALYSIS: 8260B/CLP

PRESERVATIVE: HCl / ICE

PAGE 2 OF 2

STANDARD REPORT DELIVERY ○

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ●

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/13/09	—	Dup-16	G	X				4	3 day TAT

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Ryan Sottle	4/14/09	15:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Amanda Hanson	4-14-09	1500			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	4-14-09	1500	YES ○ NO ○		6060-28745	1.9°C CU-07	

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 160-28795 Logged in TALS By : Amanda Harrison

Cooler Received on (date) 4-14-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking #_____

3. Temperature of rep. sample or temp blank when opened: 1.9°C cw-07 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers:_____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers:_____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 6

All containers pH < 2 ? Yes If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers:_____

All containers pH between 6 and 8?_____ If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? _____

If yes, which samples? _____

R625-EDC-001214-0

Serial Number 06208

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6060-28775
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLEVAST - Annual	80038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Park Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE ____ OF ____

STANDARD REPORT DELIVERY ○

DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE 24 hr

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) *INDICATE*	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B + 8260B Sim	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/15/09	1010	MW-218	G	X						4	
↓	1052	MW-250	↓	↓						4	
	1430	MW-203								4	
↓	1454	2105 Tallevast Rd	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/15/09	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/15/09	1700			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-15-09	1700	YES ○ NO ○		6060-28775	2.1°C	cw-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 06423

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring / Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location: 660-28307
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP / Annual	60038055.0000.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 5

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	IRAP: 8260B 8260B_SIM	IRAP: 300.0_28D	IRAP: 6010B	REQUIRED ANALYSIS: 8260B 8260B_SIM	REMARKS
		PRESERVATIVE						HCl	NONE	NITRIC ACID	HCl	
								NUMBER OF CONTAINERS SUBMITTED				
3/20/09	—	DUP-01	G	X				4	1	1	—	
	1220	MW-35						4	1	(?)	—	
	1645	MW-95						—	—	—	1	All vials broken NT 3-23-09
	1330	EW-103						4	1	1	—	
	0950	EW-108						3 4	1	1	—	
	1217	EW-109						4	1	1	—	
	1109	EW-110						4	1	1	—	
	1330	EW-103 MS/MSD						4	1	1	—	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin Daly	3/20/09	1900			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3-20-09	1900			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-20-09	1900	YES ○ NO ○		660-28307	2.5°C on ice	

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28307 Logged in TALS By: Amanda Harris

Cooler Received on (date) 3-20-09 And Opened By (full name): Charles Wolfe

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.5°C au-07 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 6

All containers pH < 2 ? Yes If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 7

All containers pH between 6 and 8? Yes If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

R625-EDC-001214-0

Serial Number 12228

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28391
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	30038055.0020.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	8260B HCl	8260B_SIM 300.0-28D (Bromide) None	601/3 HNO3	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/24/09	1400	MW-19	G	X				4	1	—		
	1400	MW-19 MS						4	1	—		
	1400	MW-19 MSD						4	1	—		
	1010	MW-134						4	1	—		
	—	DUP-03						4	1	—		
	1006	MW-41						4	1	—		
	0850	MW-130						4	1	—		
	1615	MW-253						4	1	—		
	1217	EW-101						4	1	1		
	1045	EW-107						4	1	1		
	1506	MW-87						4	—	—		
	1310	EW-106						4	1	1		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1506
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340	Amanda Harrison	3/25/09	1500

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/25/09	1500	YES ○ NO ○		660-28391	2.3°C 3.1°C	CU-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12229

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE RALPH

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	REQUIRED ANALYSIS: 300.0-28D (Bromide)	PRESERVATIVE: HCl	PRESERVATIVE: None	REMARKS
3/24/09	1015	MW-23	G	X				4	1				
↓		Trip Blank	↓	↓				3					Added per client NG 3-26-09

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1540
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1540

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/25/09	1540	YES ○ NO ○		660-28391	2.3°C 3.1°C	CU-02

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12236

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28487
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	B003805S.0020, 00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: (2)

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	NUMBER OF CONTAINERS SUBMITTED: 8260B HCl	8260B_SIM NONE	300.0-28D (Bromide) HNO3	6010B PRESERVATIVE	REMARKS
3/25/09	1039	EW-102	G	X				4	1	1		*Sample for
3/25/09	1141	MW-76	G	X				4	*	—		bromide analysis
↓		Trip Blank	↓	↓				3				is part of bromide
		Added per client NT 3-27-09										& sulfate analysis
												under UIC chain

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235	Amanda Harrison	3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350	YES ○ NO ○		660-28487	2.5°C	cc 07

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28247 Logged in TALS By: Amanda Harrison

Cooler Received on (date) 3-26-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: Lab

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 2.5°C on -07 Degrees Celsius

4. Number of H2SO4 (sulfuric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH.< 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 1

All containers pH < 2 ? YES If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 2

All containers pH between 6 and 8? YES If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

R625-EDC-001214-0

Serial Number 06422

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6660-28287
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 12

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	REQUIRED ANALYSIS: 300.0_28D	REQUIRED ANALYSIS: 6010B	PRESERVATIVE: HCl	PRESERVATIVE: NONE	PRESERVATIVE: NITRIC ACID	REMARKS
3/19/09	1100	MW-36	G	X				4	1		1*				*Do not run the
	1220	MW-127						4	1		1*				6010B analysis for
	1230	MW-77						4	1		1*				these samples(*) on
	1630	MW-37						3	1		1*				this chain. The
	1630	MW-40						4	1		1*				only sample from
	1635	EW-105						4	1		1				this chain that
	1650	MW-254						4	1		1*				should be analyzed
															for 6010B is
															EW-105. Thanks.

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	3/16/09	1700		3/20/09	0945		3/20/09	1100
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945	Amanda Hamm	3/20/09	1100

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hamm	3/20/09	1100	YES ○ NO ○		6660-28287	3.5°C CU-07	

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28287 Logged in TALS By: Amanda Hanson

Cooler Received on (date) 3/20/09 And Opened By (full name): Charles Valy

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking #_____

3. Temperature of rep. sample or temp blank when opened: 3.5 Degrees Celsius CU-07

4. Number of H2SO4 (sulfuric acid) preserved containers:_____

All containers pH < 2 ? _____ If not please comment below:

_____

_____

5. Number of HCL (hydrochloric acid) preserved containers:_____

All containers pH.< 2 ? _____ If not please comment below:

_____

_____

6. Number of HNO3 (nitric acid) preserved containers: 7

All containers pH < 2 ? yes If not please comment below:

_____

_____

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH >12 ? _____ If not please comment below:

_____

_____

8. Number of Unpreserved containers: 7

All containers pH between 6 and 8? yes If not please comment below:

_____

_____

9. Was chlorine present in any of the unpreserved containers? NO

If yes, which samples? _____

R625-EDC-001214-0

Serial Number 06419

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 16

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) /INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B_SIM	300.0_28D	601CB	PRESERVATIVE: HCL	NONE	NITRIC ACID	REMARKS
								NUMBER OF CONTAINERS SUBMITTED						
3/18/09	1200	MW-108	G	X				4	1	1				
	1720	MW-81						4	1	1				
	1900	MW-128						4	1	1				
	1900	MW-42						4	1	1				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Greg Dorsey	3/19/09	1000		3.19.09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000	Amanda Hanson	3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	3/19/09	1115	YES ○ NO ○		28257	4.5°C CH07	

(660-28257)

TAL8240-660 (1207)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

PRESERVATION CONFIRMATION FORM

Tampa, FL

JOB NUMBER: 660-28257 Logged in TALS By : Amanda Harrison

Cooler Received on (date) 3-19-09 And Opened By (full name): Charles Volz

1. Shipper (circle one) FEDEX UPS DHL WALK-IN (COURIER) OTHER: _____
   Lab

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 4.5°C CU-07 *Degrees Celsius*

4. Number of H2SO4 (sulfuric acid) preserved containers: _____
   All containers pH < 2 ? _____ If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____
   All containers pH.< 2 ? _____ If not please comment below:

6. Number of HNO3 (nitric acid) preserved containers: 4
   All containers pH < 2 ? yes If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____
   All containers pH >12 ? _____ If not please comment below:

8. Number of Unpreserved containers: 4
   All containers pH between 6 and 8? 3 yes If not please comment below:
   1) MW-126 Ph = 9

9. Was chlorine present in any of the unpreserved containers? NO
   If yes, which samples? _____

R625-EDC-001214-0

Serial Number 12243

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28463

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	R0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 82603	REQUIRED ANALYSIS: 82603_SIM	REQUIRED ANALYSIS: 300.0 - 28D (Bromide)	REQUIRED ANALYSIS: 60107	REMARKS
		PRESERVATIVE						HCl	None	HNO_3		
3/26/09	1658	MW-70	G	X				4	*	—		* Sample for bromide analysis is part of bromide & sulfate analysis under UIC chain
3/26/09	—	DUP-05	G	X				4	*	—		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Lisa Kumer	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-27-09	1725	YES ○ NO ○		660-28463	1.5°C CW07	

TAL8240-660 (1207)

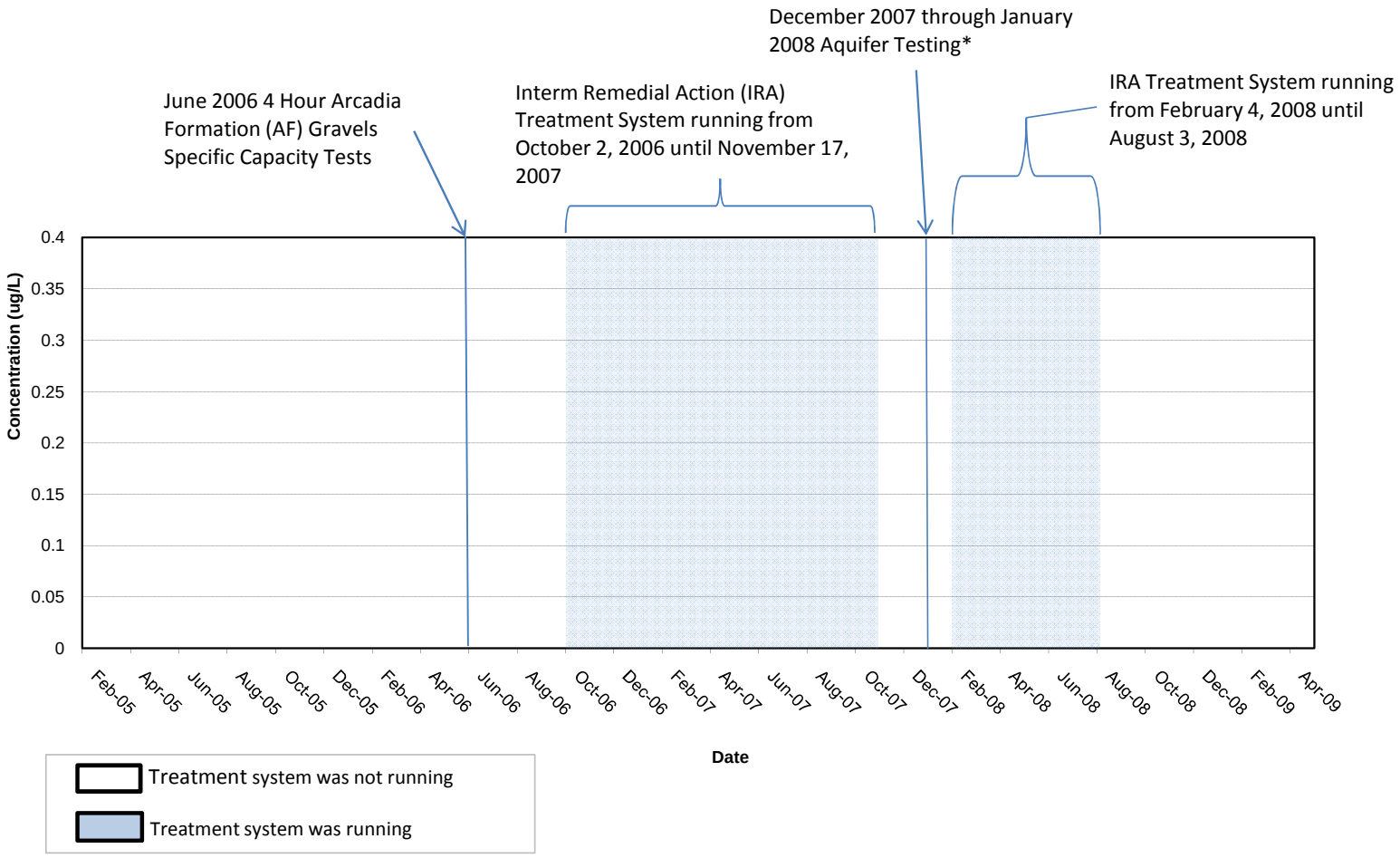
ARCADIS

Attachment D

Concentration vs. Time Graphs for Representative Wells

APPENDIX D
TREATMENT SYSTEM EVENTS LEGEND

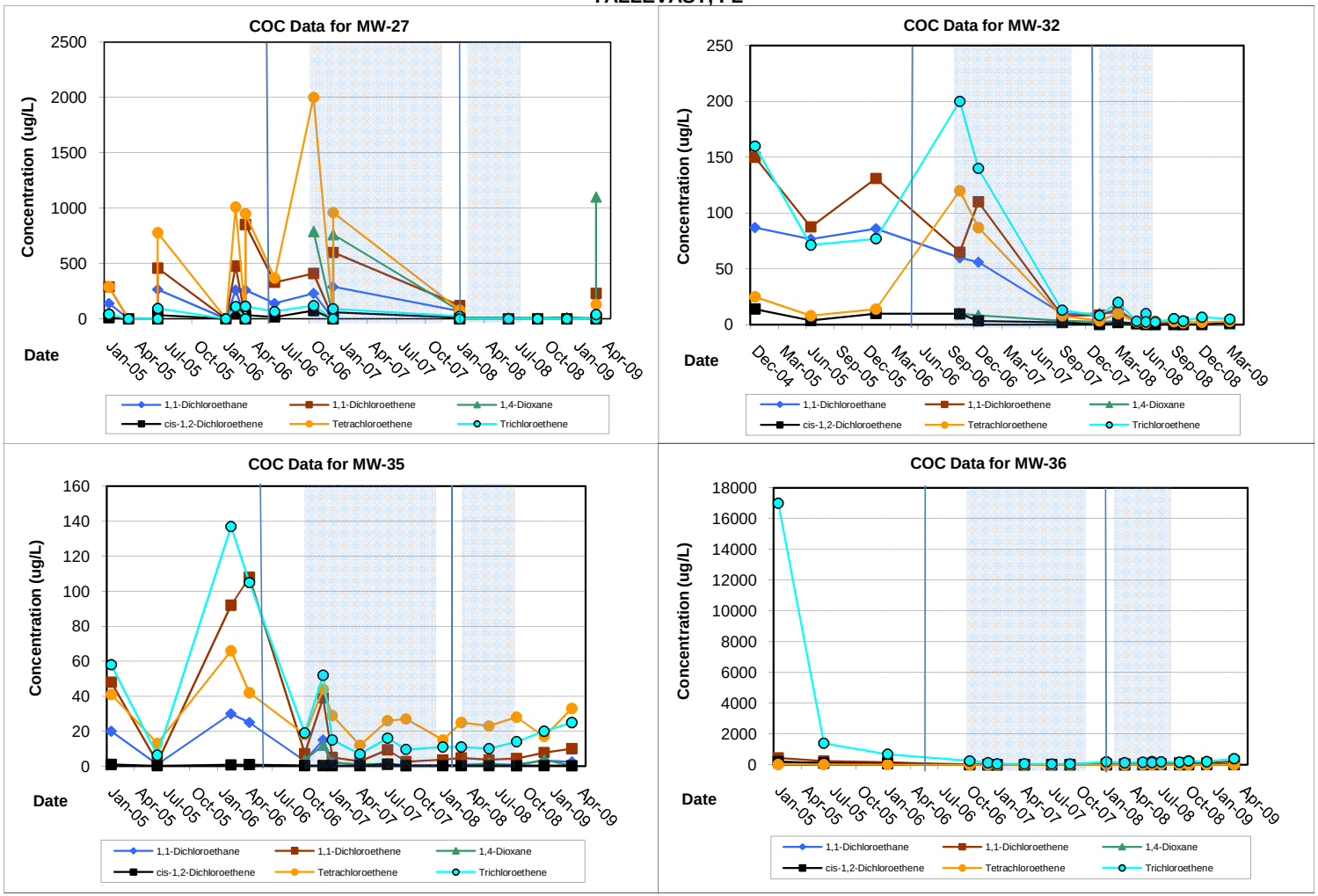
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



* Aquifer testing consisted of slug tests , specific capacity tests, and 24-hour pump tests. System was running intermitently

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:

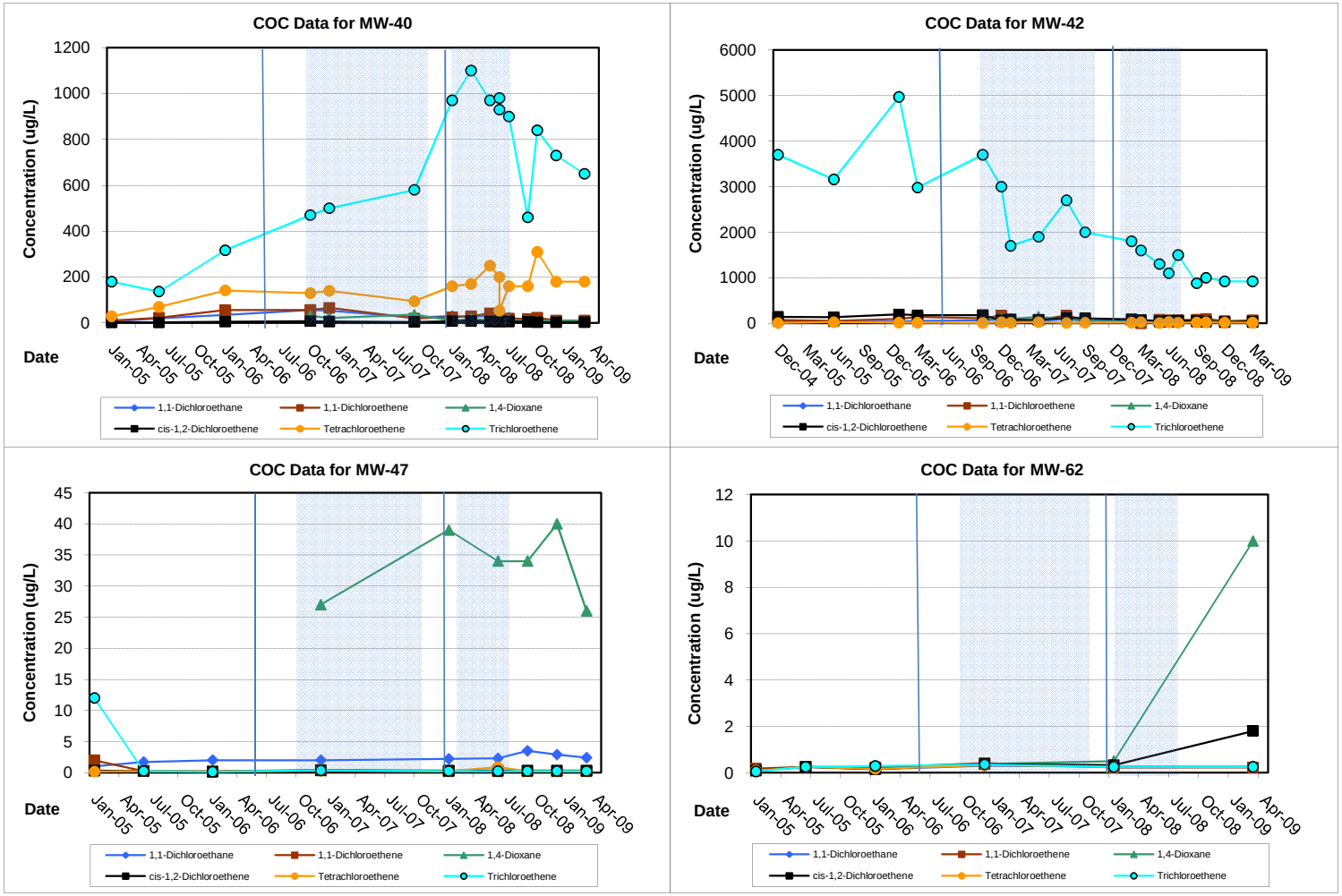
Blue shading indicates time periods that the IRAP treatment system was operating.

Blue lines indicate aquifer testing pumping events.

See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:

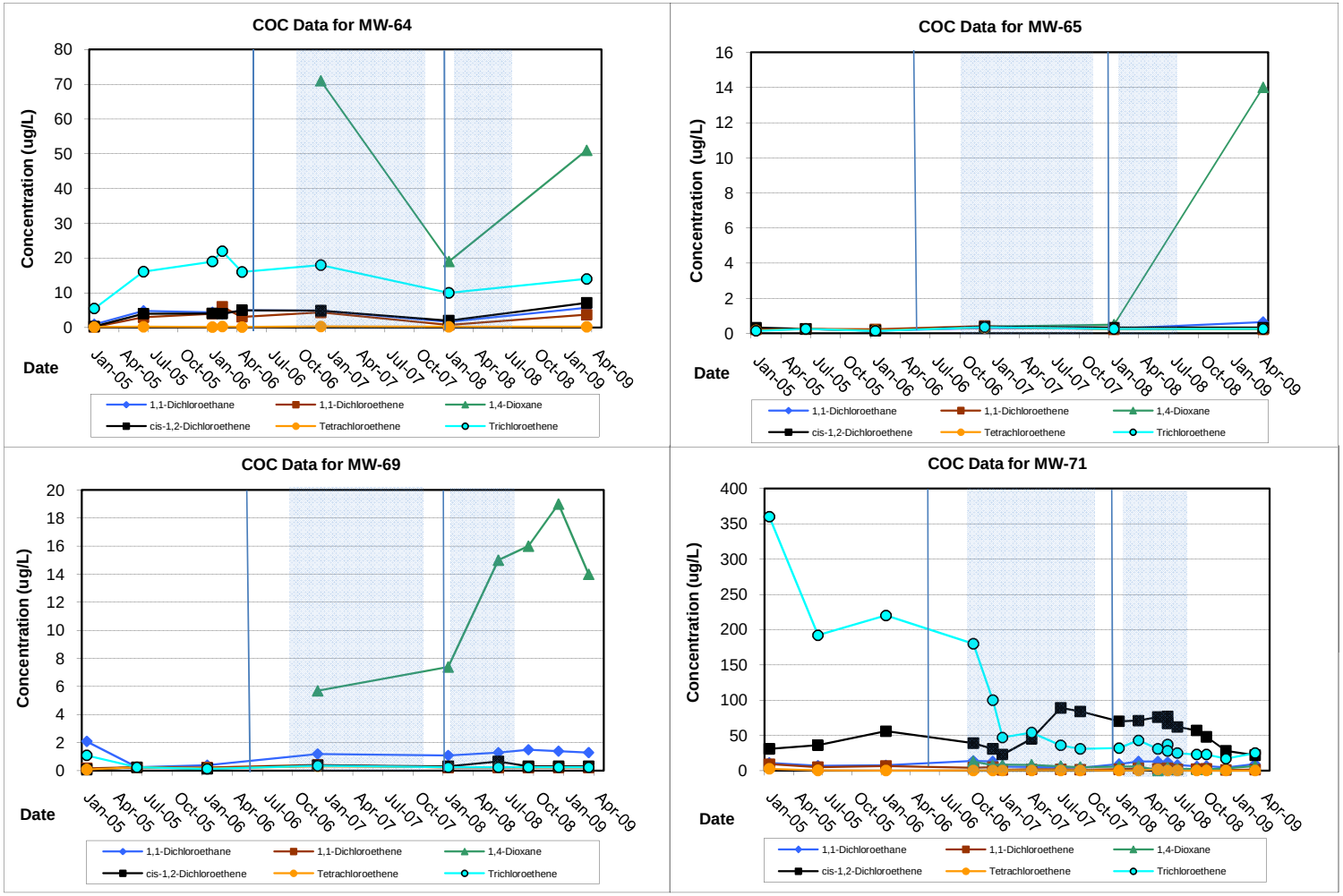
Blue shading indicates time periods that the IRAP treatment system was operating.

Blue lines indicate aquifer testing pumping events.

See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

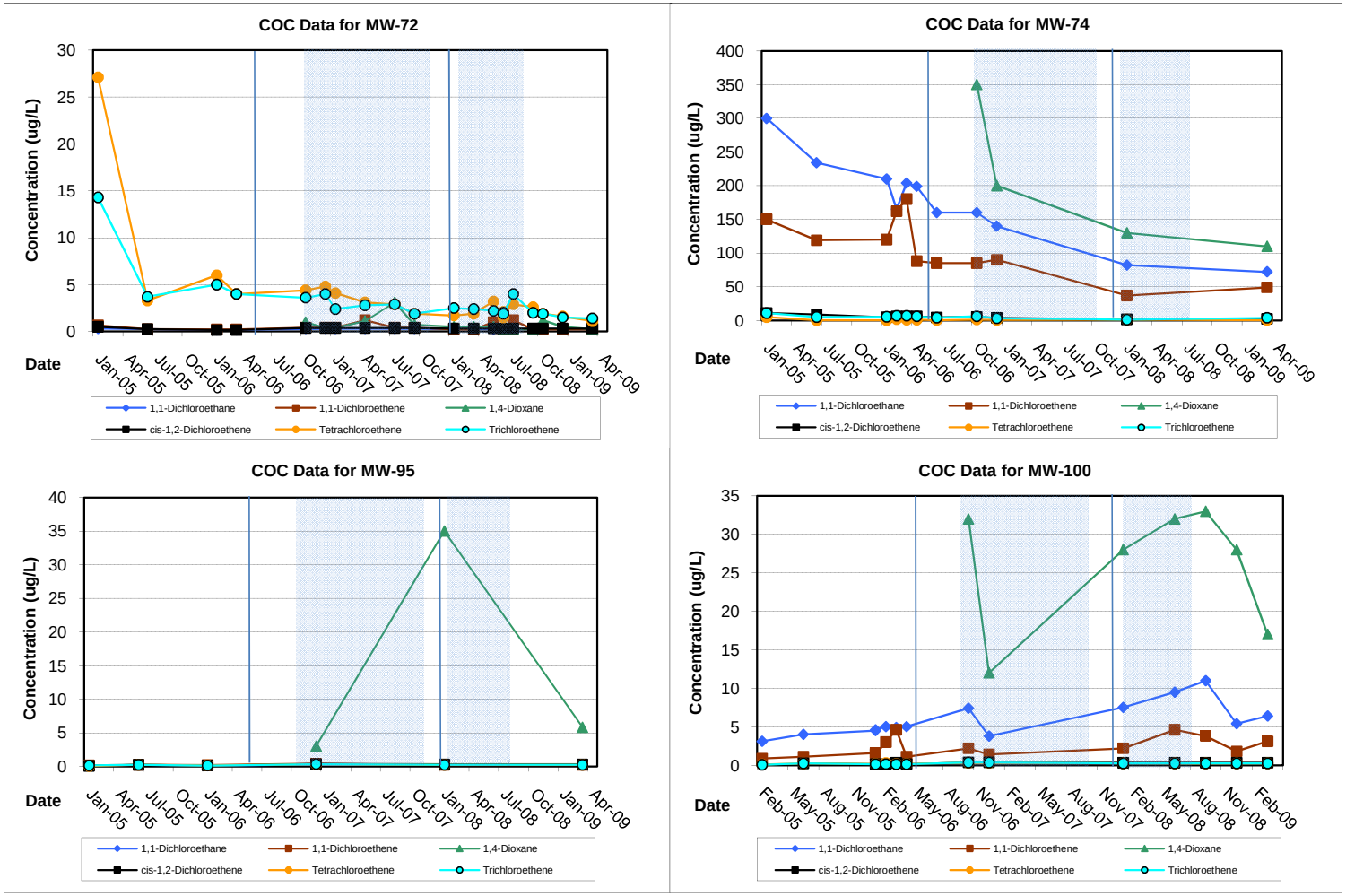
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

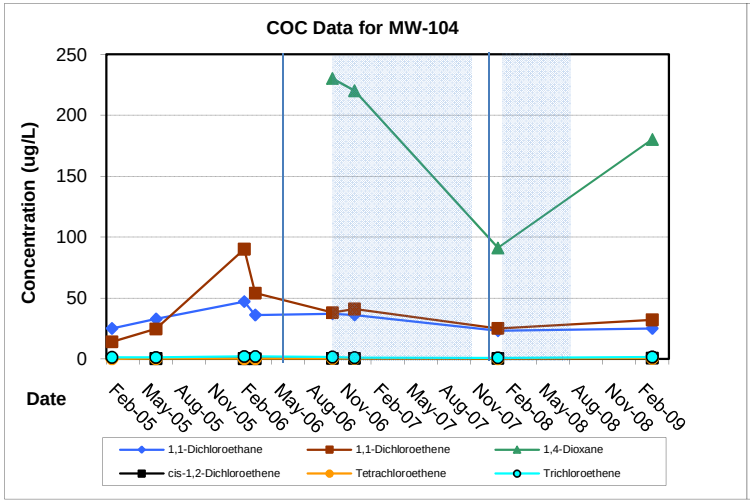
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

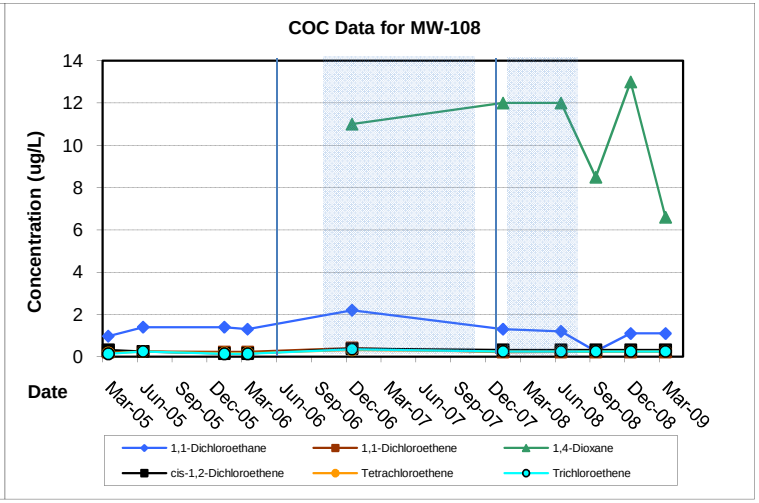


Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

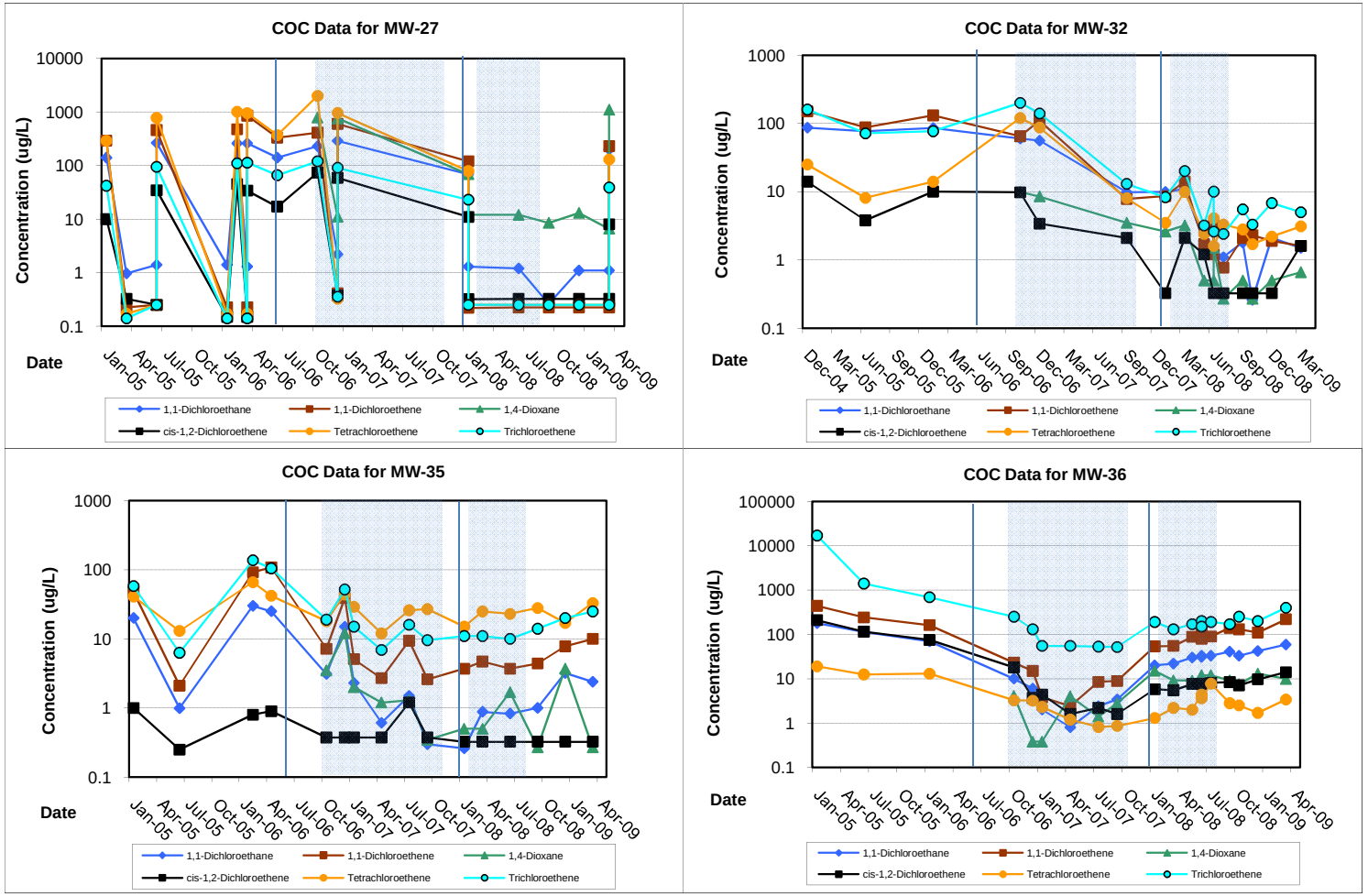




Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

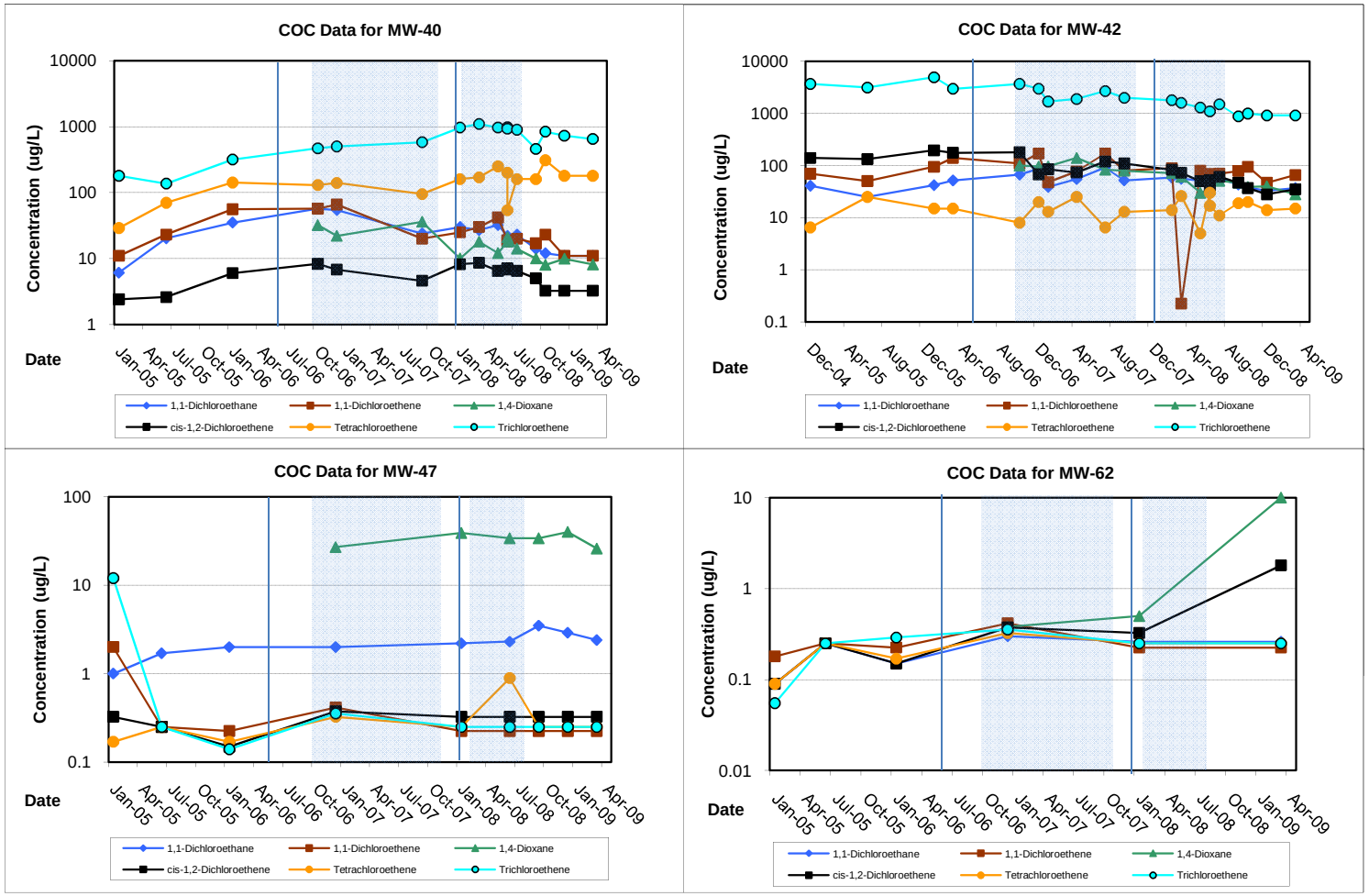


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

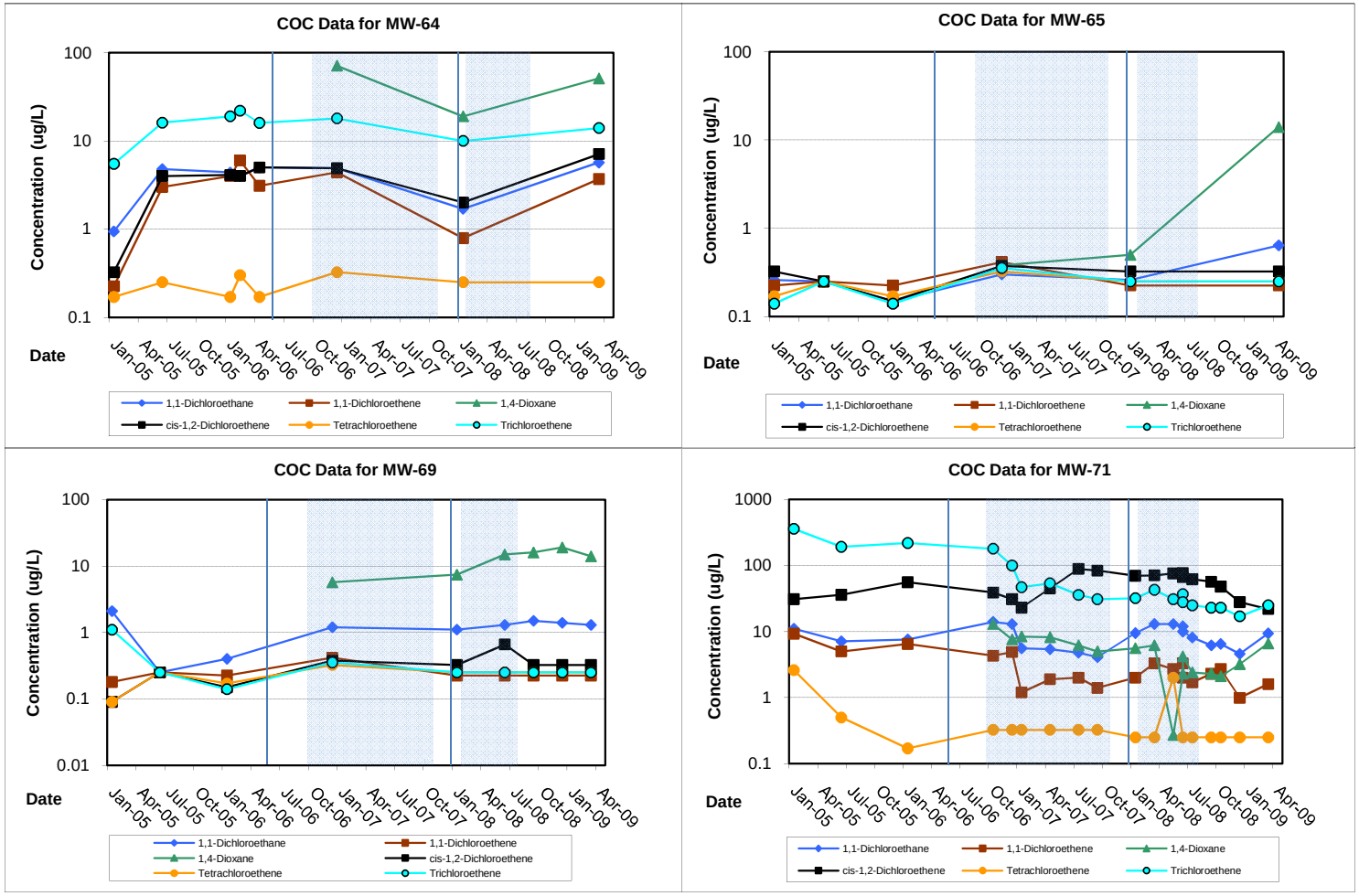


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

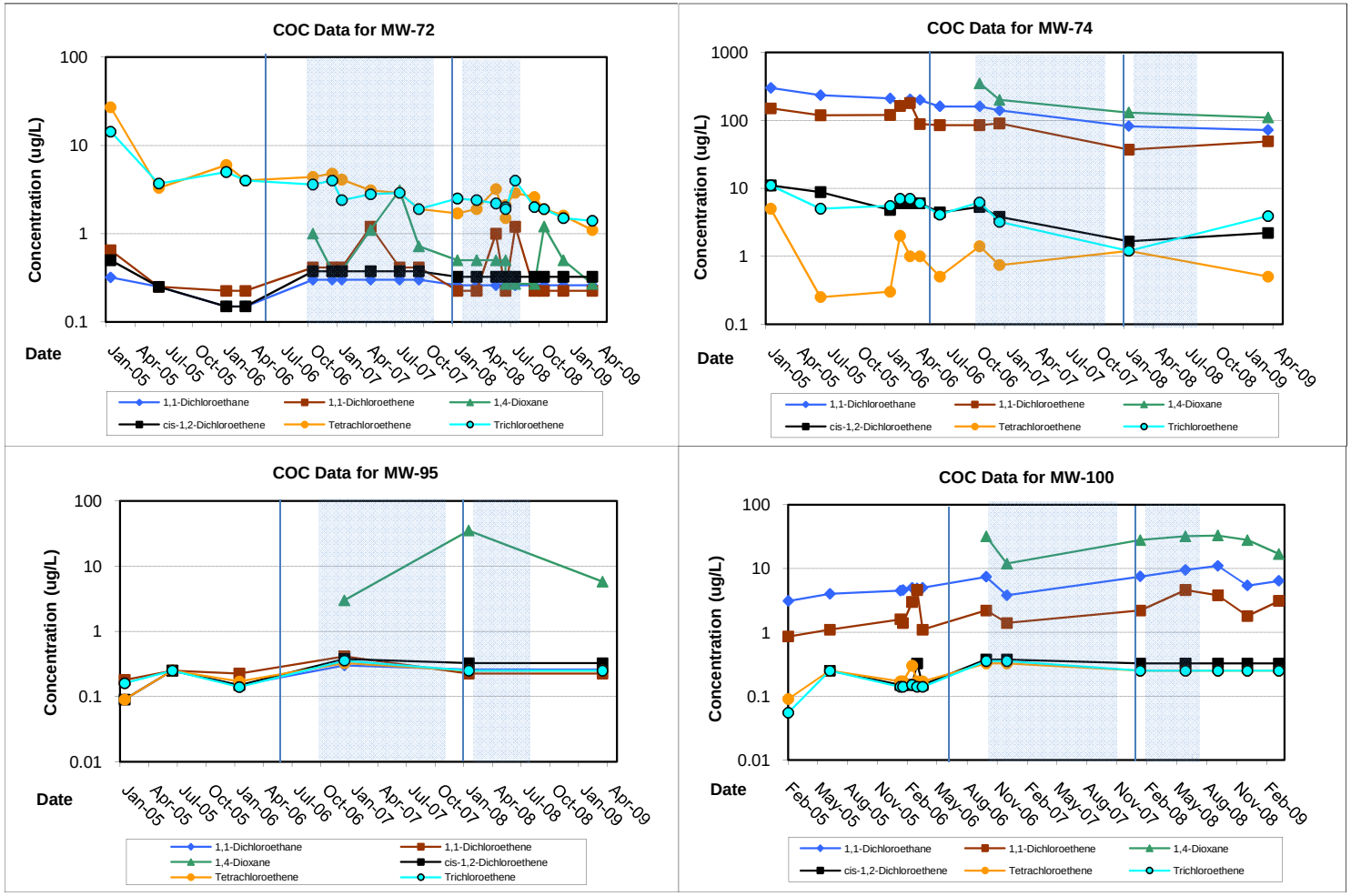


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

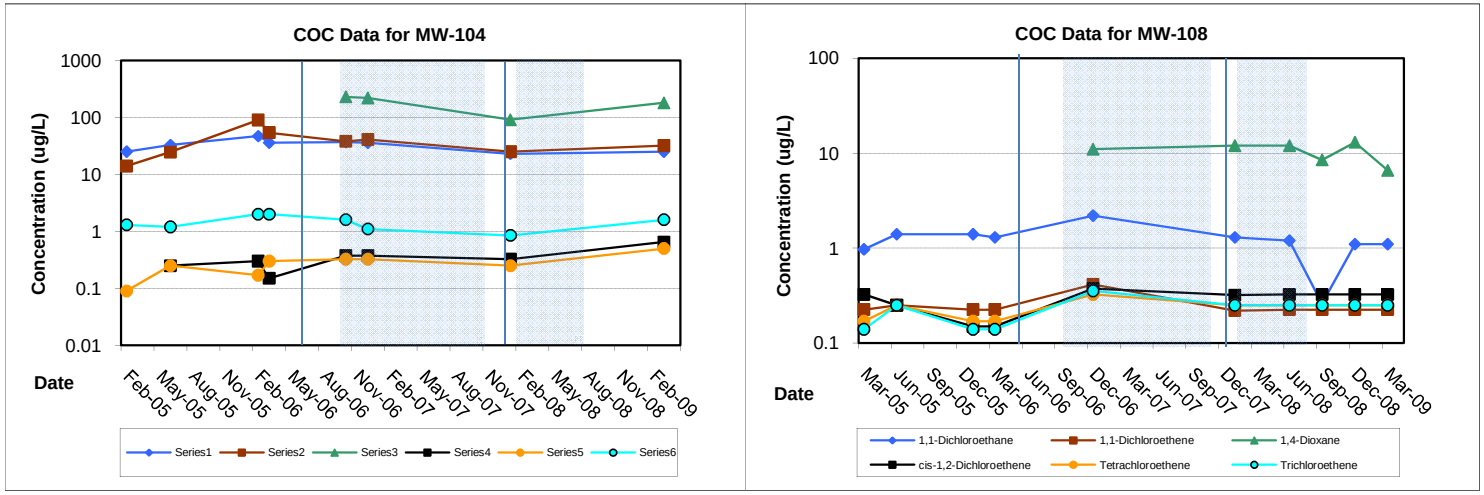


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
USAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

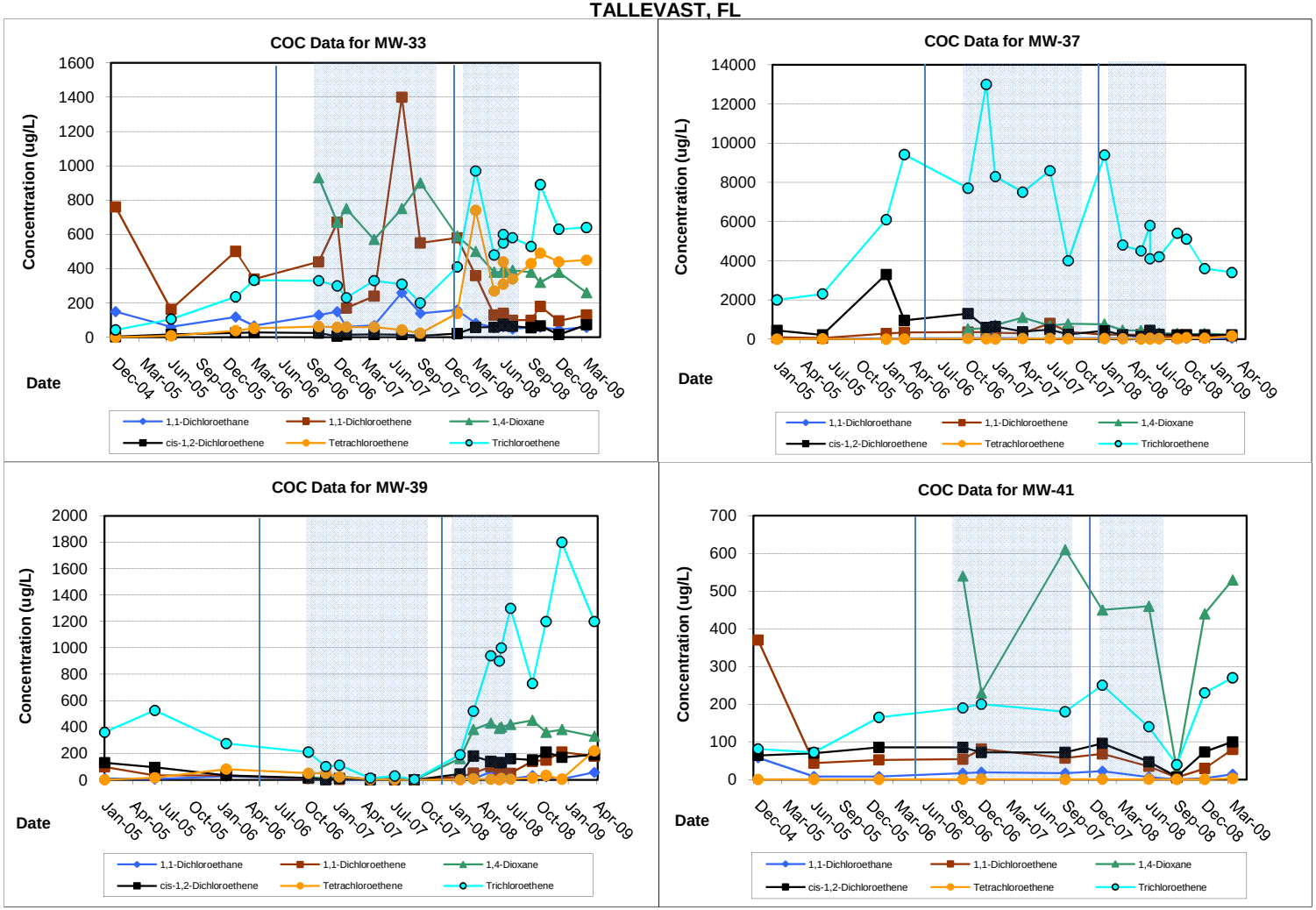


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

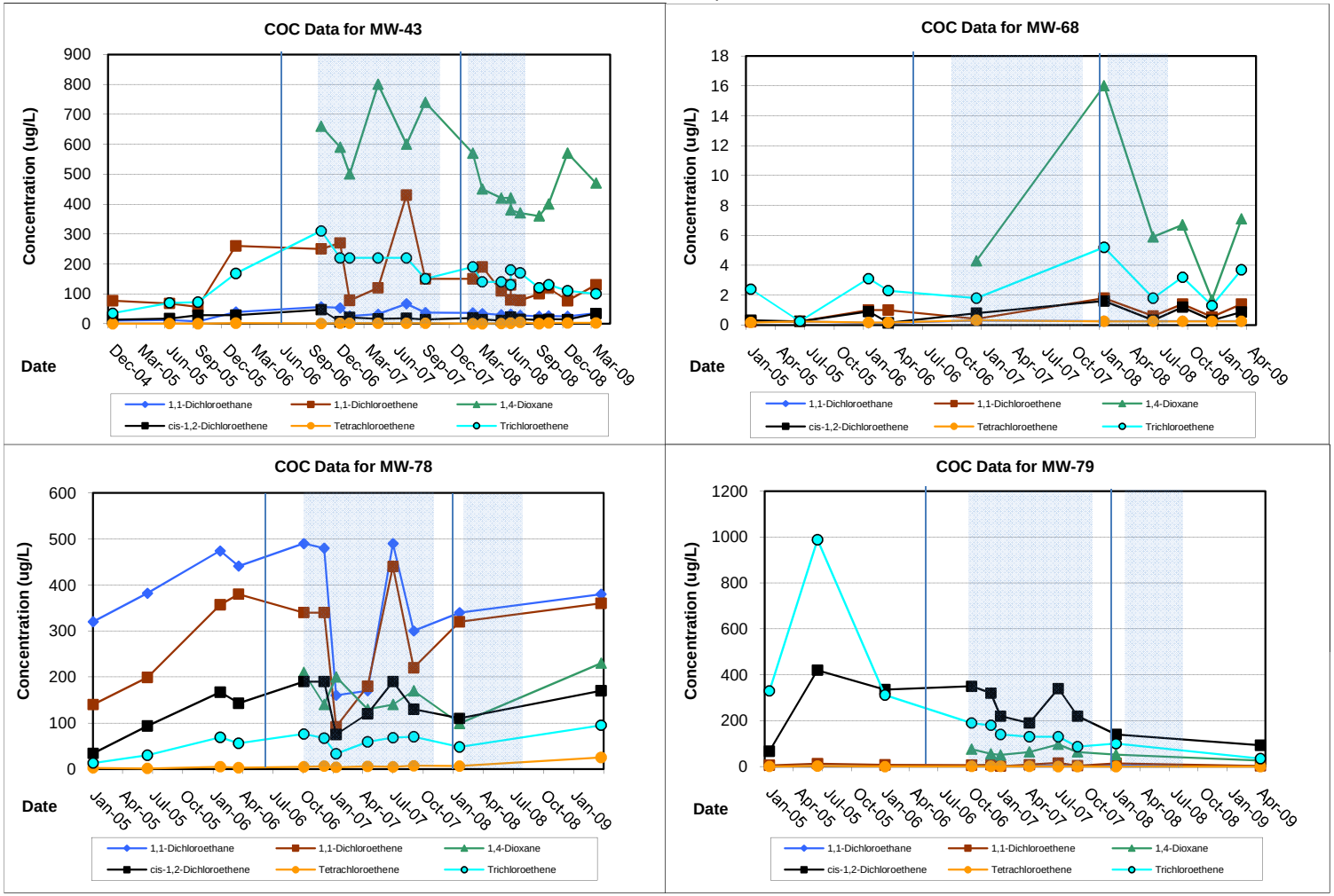
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:

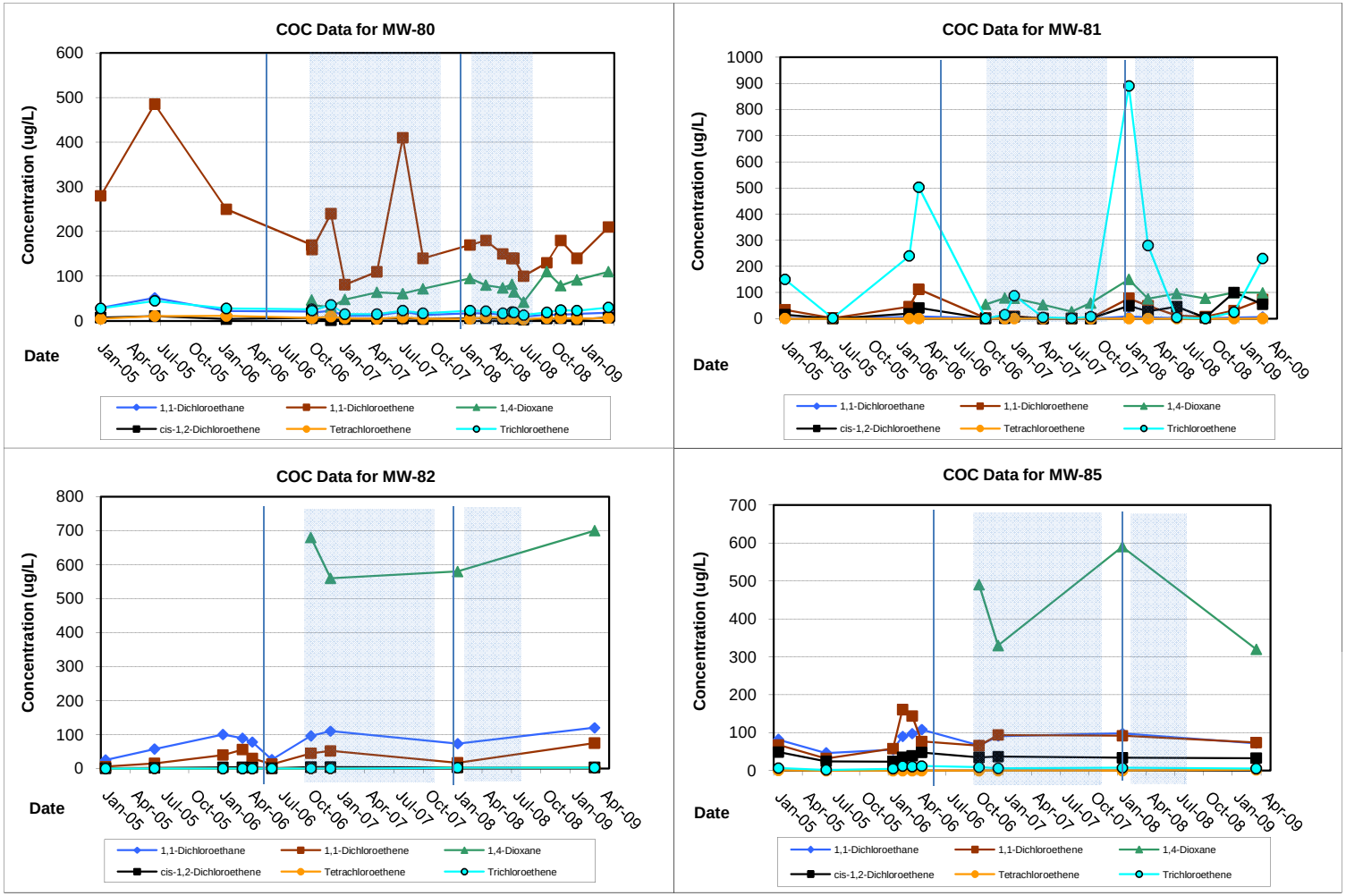
Blue shading indicates time periods that the IRAP treatment system was operating.

Blue lines indicate aquifer testing pumping events.

See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:

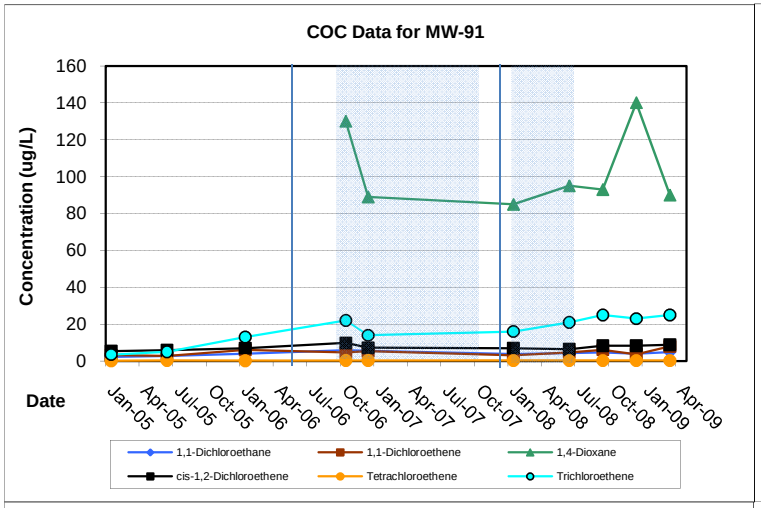
Blue shading indicates time periods that the IRAP treatment system was operating.

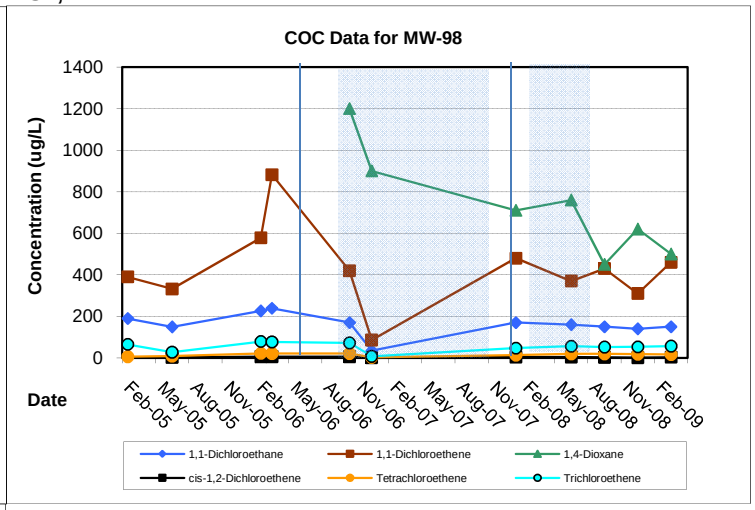
Blue lines indicate aquifer testing pumping events.

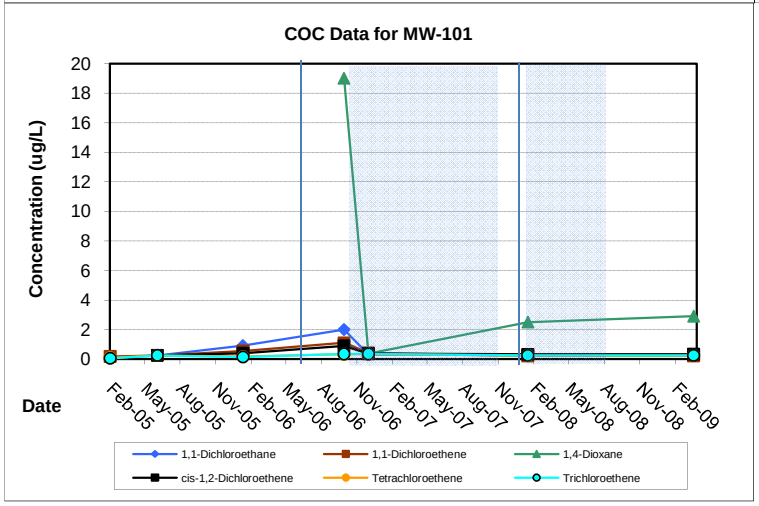
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



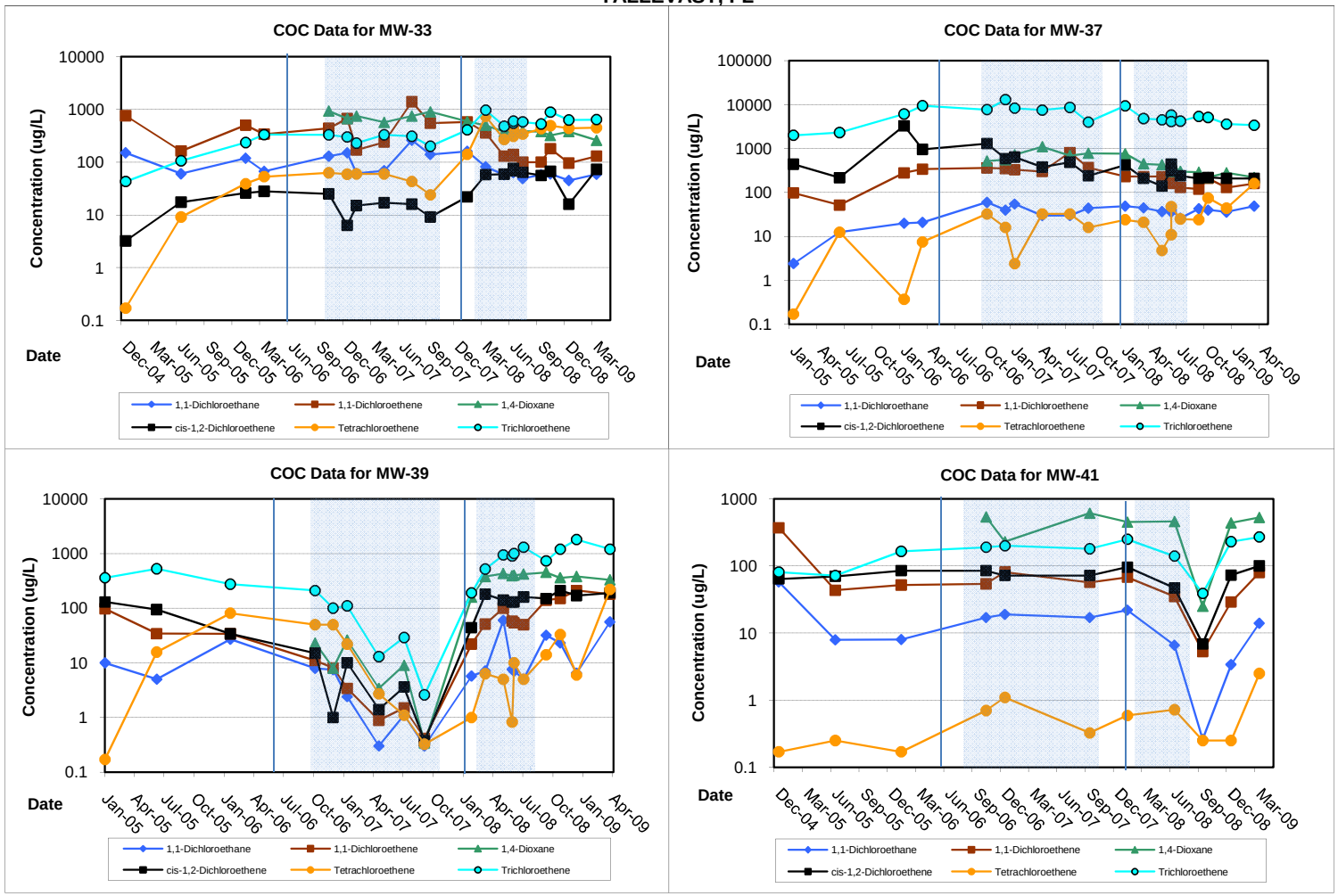




Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

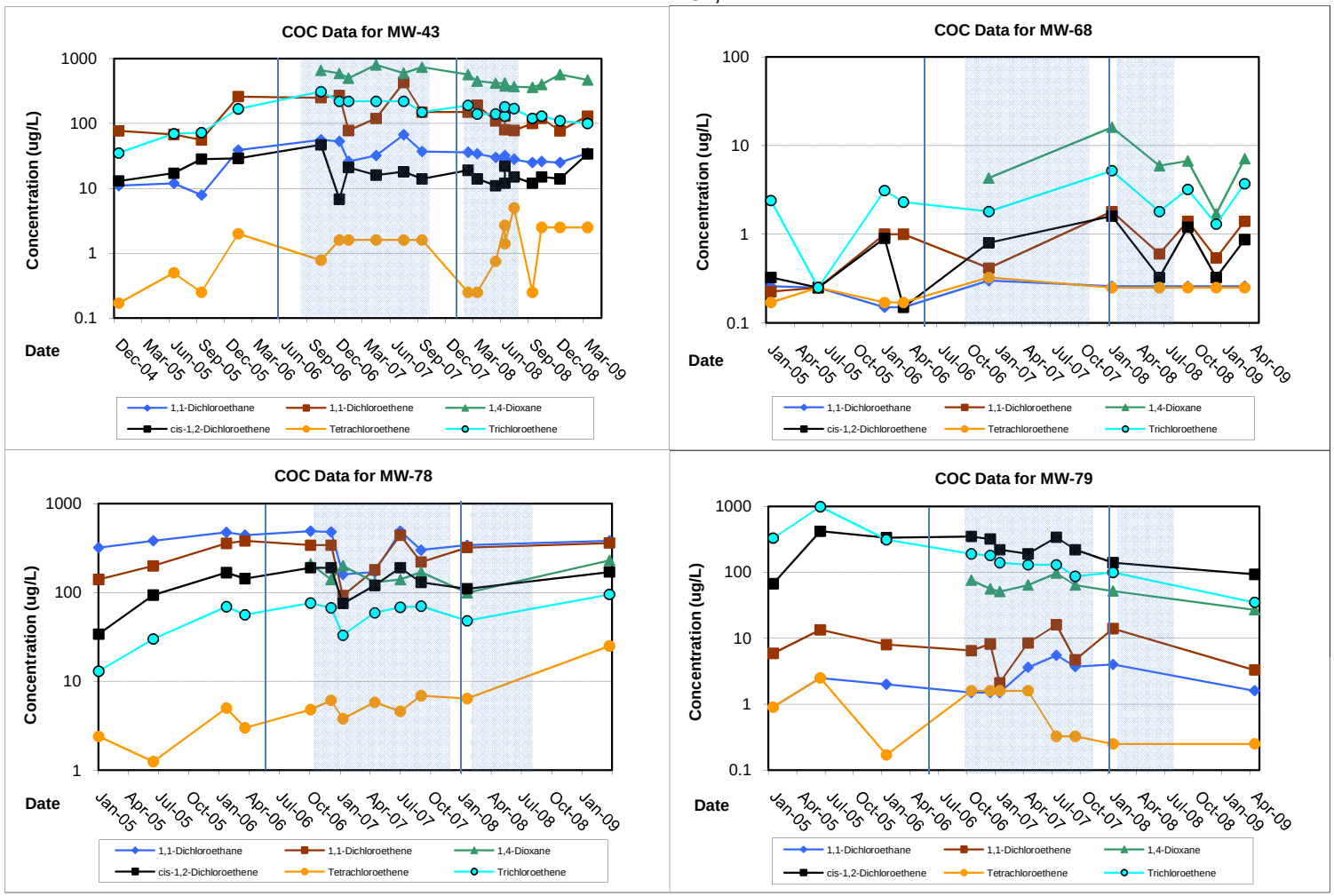
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

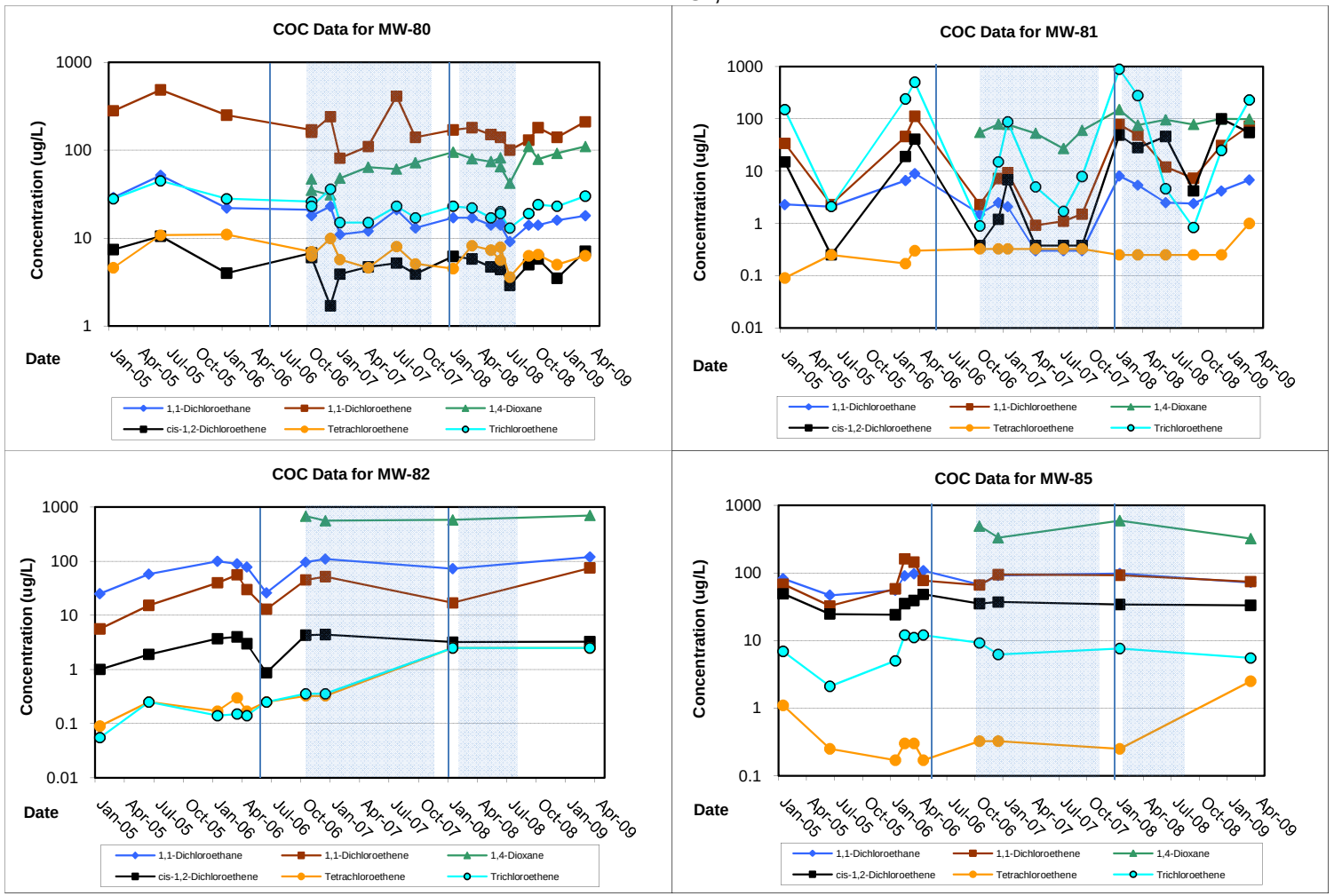
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

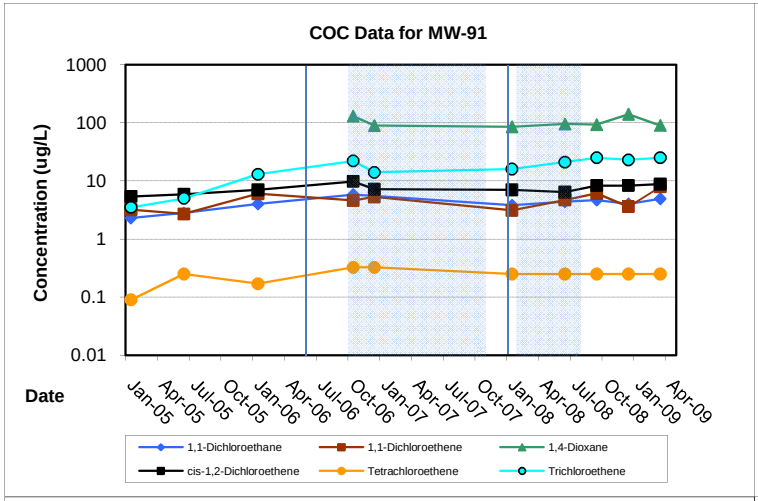
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

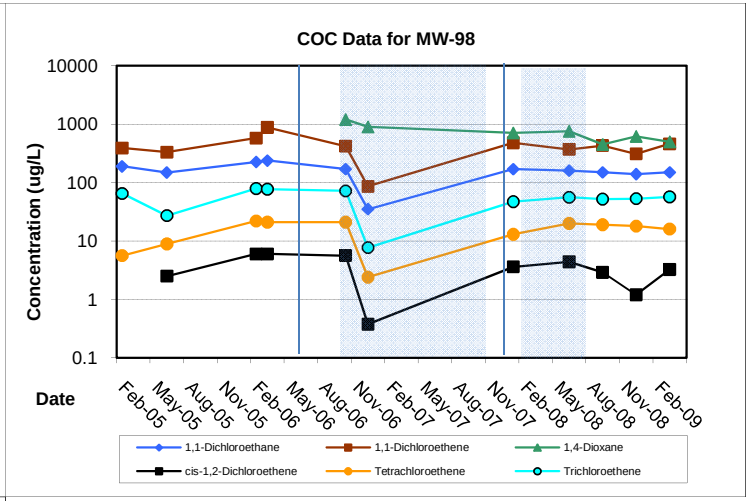


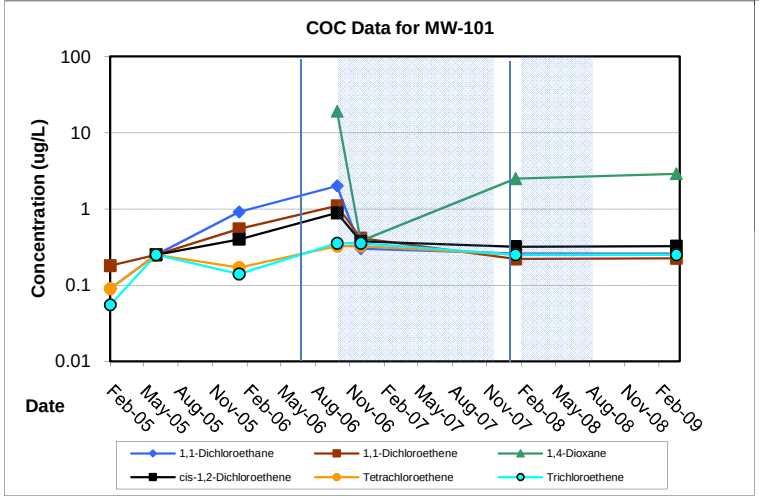
Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
LSAS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



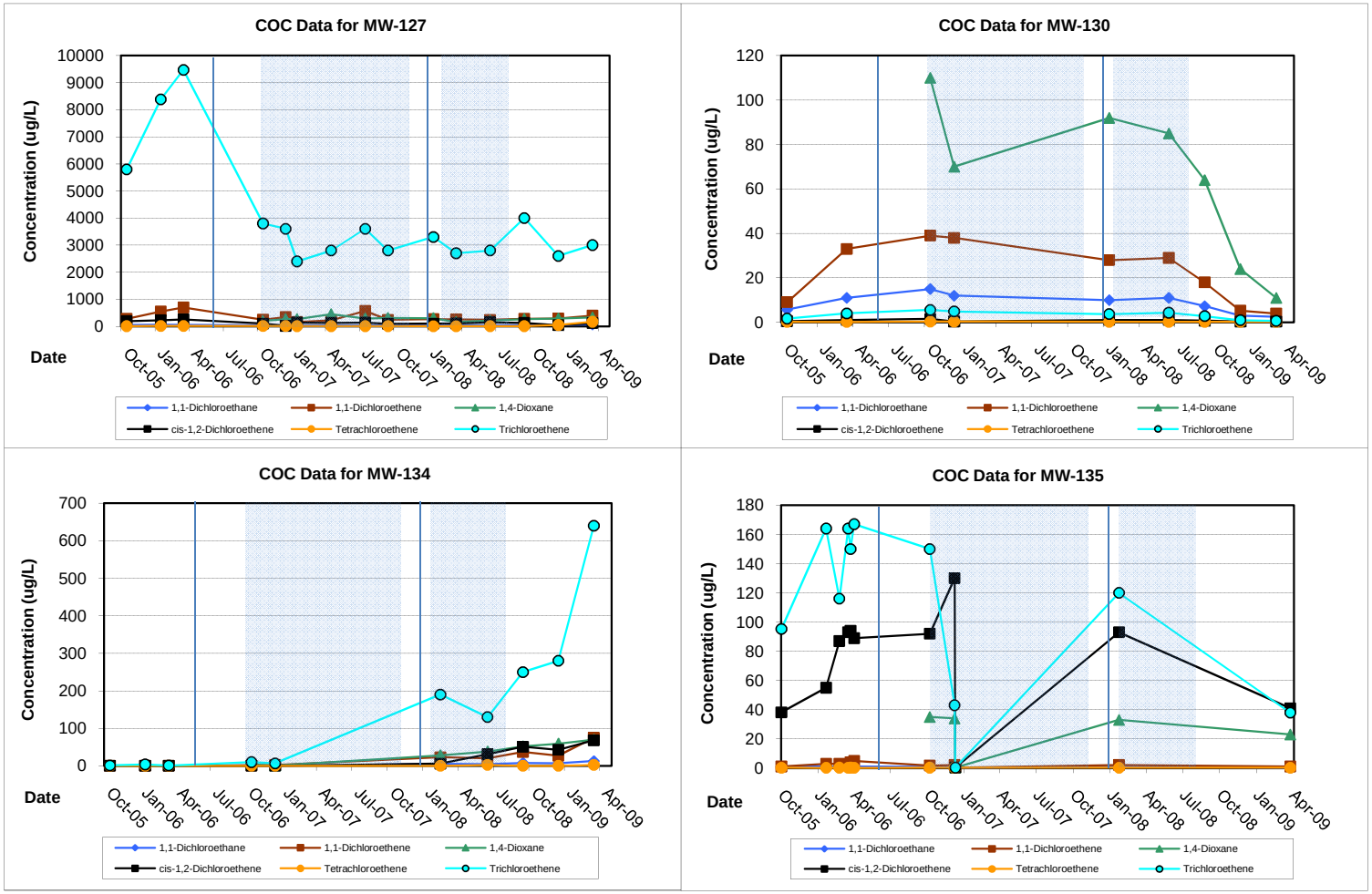




Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
AF GRAVELS ZONE

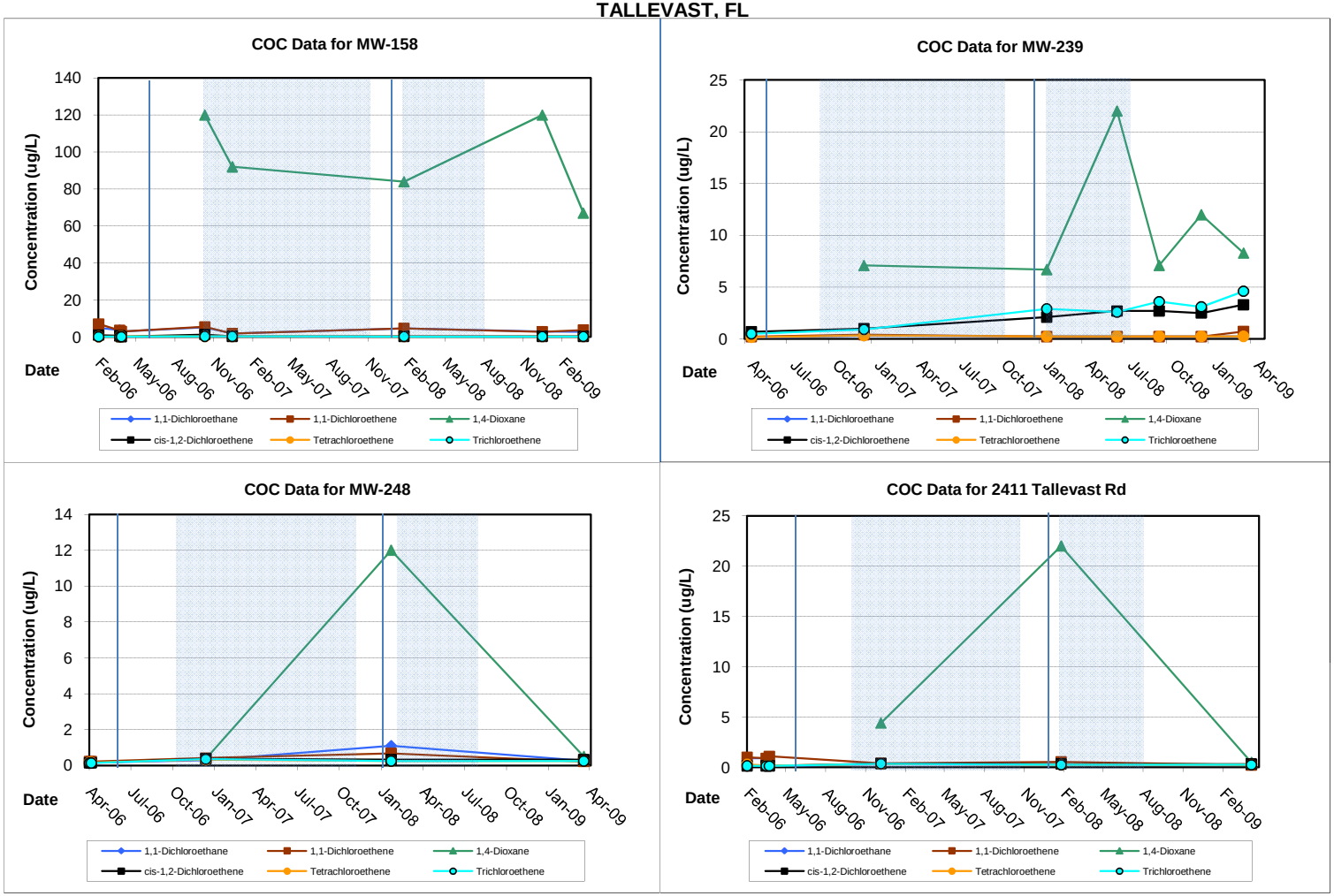
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
AF GRAVELS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

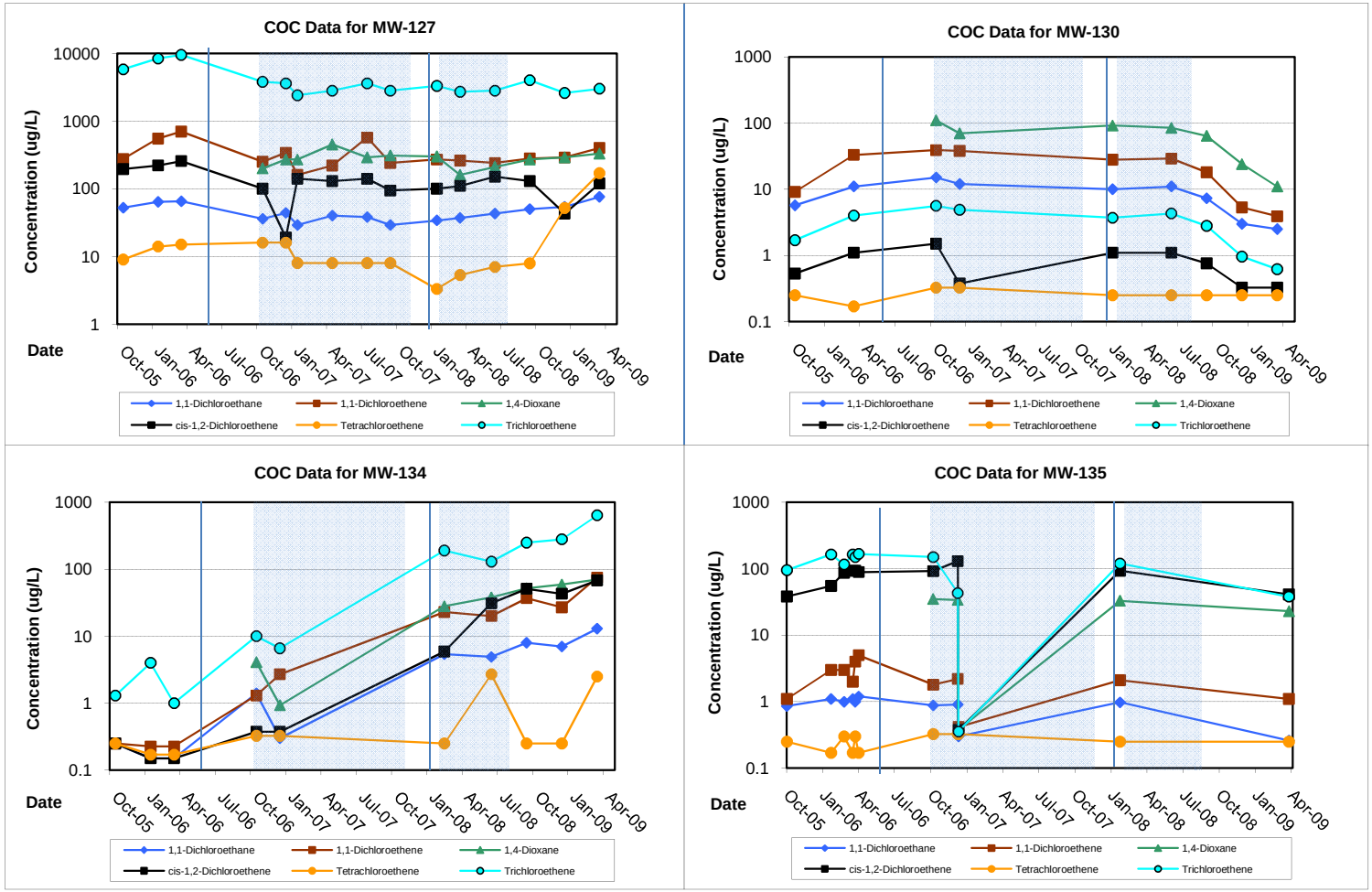


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
AF GRAVELS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

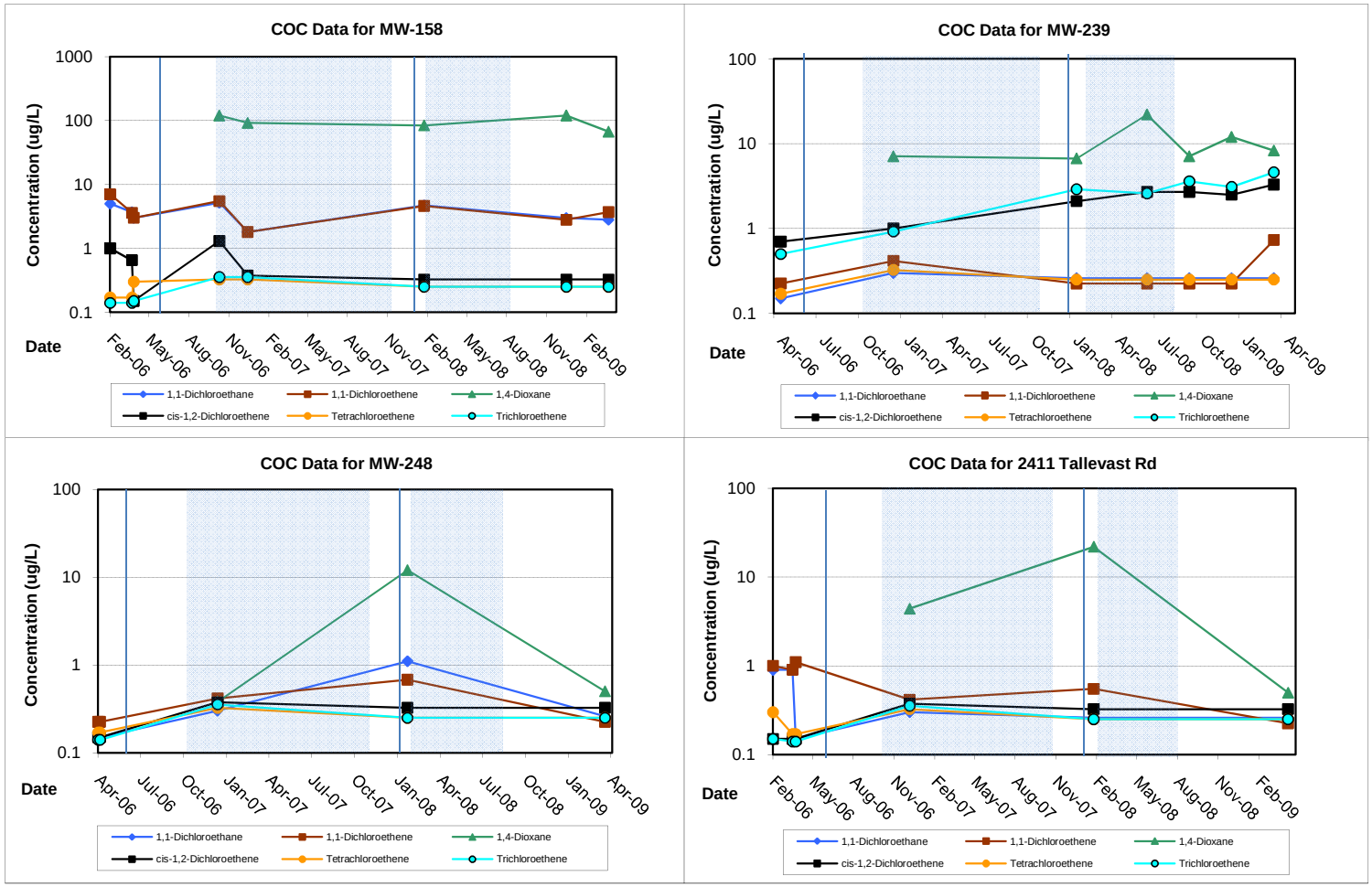


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
AF GRAVELS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL

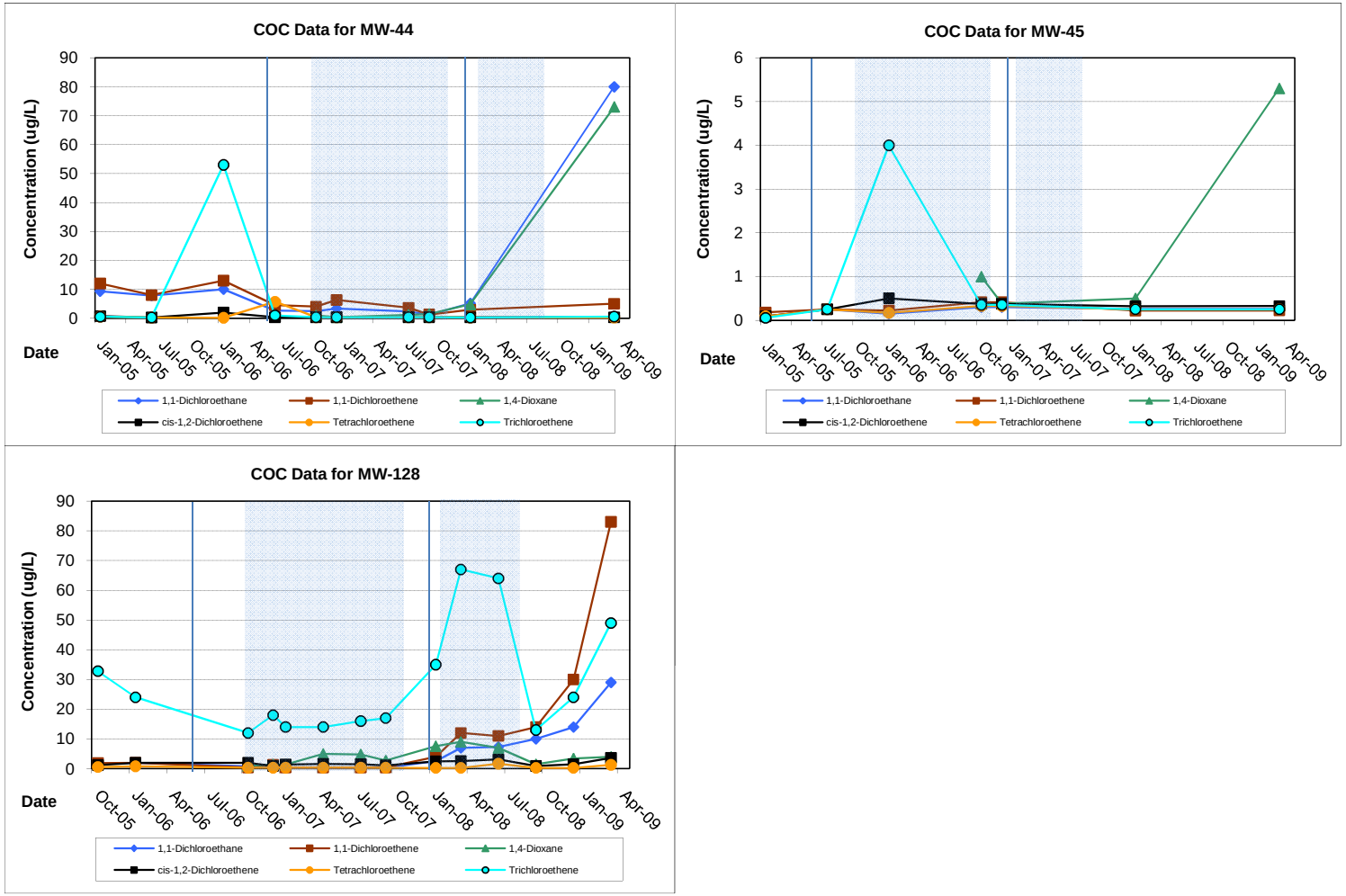


Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
S AND P SANDS ZONE

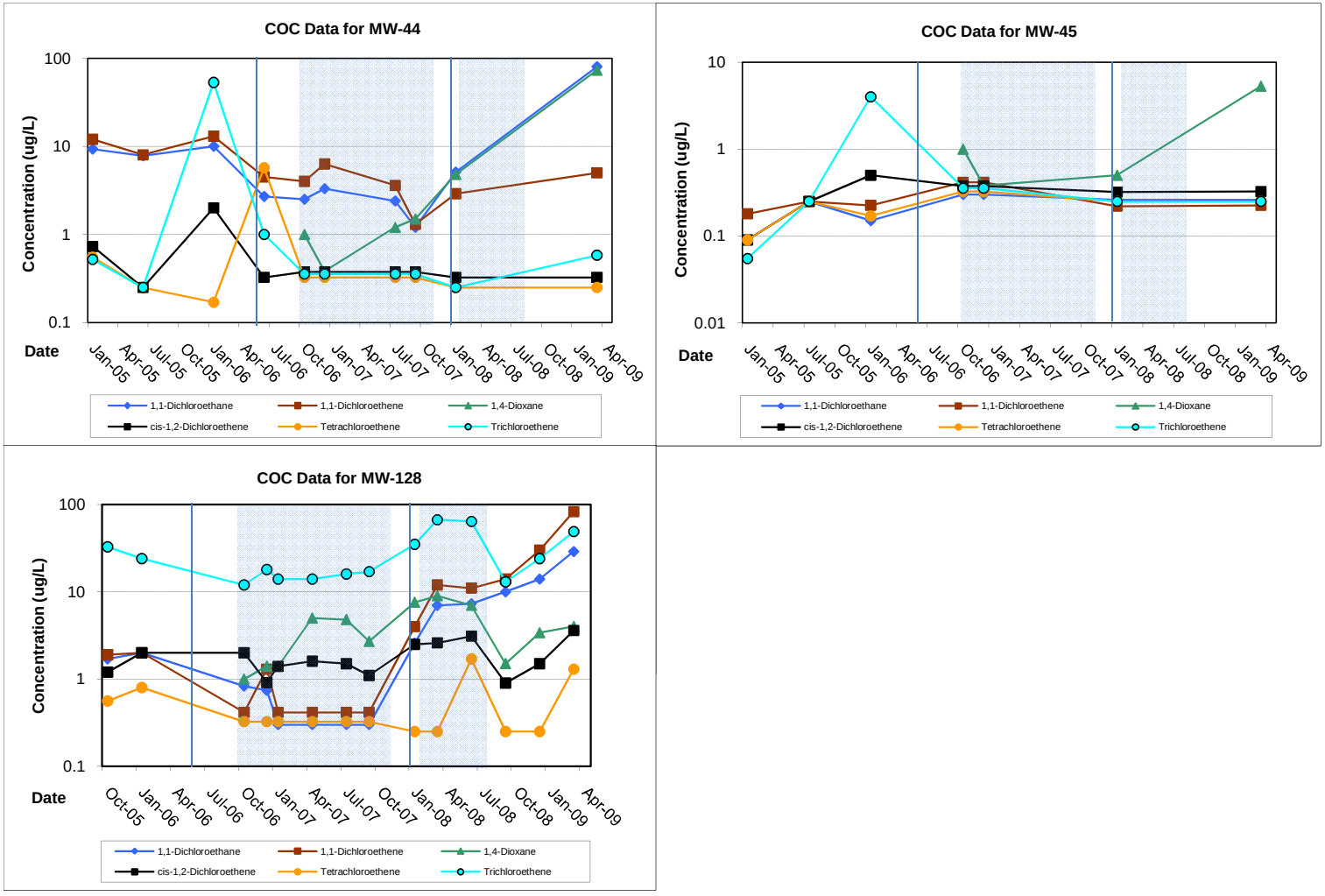
2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:
Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

APPENDIX D
LOG CONCENTRATION VS. TIME GRAPHS FOR SELECTED MONITORING WELLS
S AND P SANDS ZONE

2009 GROUNDWATER MONITORING REPORT
LOCKHEED MARTIN TALLEVAST SITE
TALLEVAST, FL



Note:

Blue shading indicates time periods that the IRAP treatment system was operating.
Blue lines indicate aquifer testing pumping events.
See Treatment System Events Legend for details.

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28258

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10000R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28258 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-111 (Annual)	660-28258-1	WATER	3/18/2009		X				
MW-74 (Annual)	660-28258-2	WATER	3/18/2009		X				
MW-104 (Annual)	660-28258-3	WATER	3/18/2009		X				
MW-82 (Annual)	660-28258-4	WATER	3/18/2009		X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on a sample location associated with this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

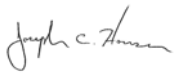
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 15, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 4, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-111

Lab Sample ID: 660-28258-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2009 0213
Date Prepared: 03/21/2009 0213

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2023.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-111

Lab Sample ID: 660-28258-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2009 0213
Date Prepared: 03/21/2009 0213

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2023.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	97	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-74

Lab Sample ID: 660-28258-2
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1550
Date Prepared: 03/23/2009 1550

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2315.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
1,1-Dichloroethane	72		1.0	2.0
1,1-Dichloroethene	49		0.90	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	10
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
2-Chlorotoluene	1.3	U	1.3	2.0
2-Hexanone	8.8	U	8.8	20
4-Chlorotoluene	1.0	U	1.0	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Acetone	20	U	20	40
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U	5.0	10
Carbon disulfide	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	1.3	U	1.3	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
cis-1,2-Dichloroethene	2.2		1.3	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
Dibromomethane	0.82	U	0.82	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Dichlorodifluoromethane	5.0	U	5.0	10
Ethylbenzene	0.88	U	0.88	2.0
Ethylene Dibromide	1.0	U	1.0	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-74

Lab Sample ID: 660-28258-2
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1550
Date Prepared: 03/23/2009 1550

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2315.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.38	U	0.38	2.0
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
Methylene Chloride	8.0	U	8.0	10
m-Xylene & p-Xylene	1.2	U	1.2	4.0
Naphthalene	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
N-Propylbenzene	1.2	U	1.2	2.0
o-Xylene	1.0	U	1.0	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
Styrene	2.0	U	2.0	4.0
tert-Butylbenzene	1.7	U	1.7	2.0
Tetrachloroethene	1.0	U	1.0	2.0
Toluene	1.0	U	1.0	2.0
trans-1,2-Dichloroethene	0.88	U	0.88	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Trichloroethene	3.9		1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
Vinyl chloride	1.0	U	1.0	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	101	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-104

Lab Sample ID: 660-28258-3
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1615
Date Prepared: 03/23/2009 1615

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
1,1-Dichloroethane	25		1.0	2.0
1,1-Dichloroethene	32		0.90	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	10
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
2-Chlorotoluene	1.3	U	1.3	2.0
2-Hexanone	8.8	U	8.8	20
4-Chlorotoluene	1.0	U	1.0	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Acetone	20	U	20	40
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U	5.0	10
Carbon disulfide	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	1.3	U	1.3	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
cis-1,2-Dichloroethene	1.3	U	1.3	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
Dibromomethane	0.82	U	0.82	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Dichlorodifluoromethane	5.0	U	5.0	10
Ethylbenzene	0.88	U	0.88	2.0
Ethylene Dibromide	1.0	U	1.0	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: **MW-104**

Lab Sample ID: 660-28258-3
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1615
Date Prepared: 03/23/2009 1615

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.38	U	0.38	2.0
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
Methylene Chloride	8.0	U	8.0	10
m-Xylene & p-Xylene	1.2	U	1.2	4.0
Naphthalene	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
N-Propylbenzene	1.2	U	1.2	2.0
o-Xylene	1.0	U	1.0	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
Styrene	2.0	U	2.0	4.0
tert-Butylbenzene	1.7	U	1.7	2.0
Tetrachloroethene	1.0	U	1.0	2.0
Toluene	1.0	U	1.0	2.0
trans-1,2-Dichloroethene	0.88	U	0.88	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Trichloroethene	1.6	I	1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
Vinyl chloride	1.0	U	1.0	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	101	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-82

Lab Sample ID: 660-28258-4
Client Matrix: Water

Date Sampled: 03/18/2009 1630
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/23/2009 1639
Date Prepared: 03/23/2009 1639

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2317.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
1,1,2-Trichloroethane	4.7	U	4.7	10
1,1-Dichloroethane	120		5.2	10
1,1-Dichloroethene	75		4.5	10
1,1-Dichloropropene	3.1	U	3.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
1,2-Dichlorobenzene	4.4	U	4.4	10
1,2-Dichloroethane	5.7	U	5.7	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,3-Dichloropropane	3.9	U	3.9	10
1,4-Dichlorobenzene	5.2	U	5.2	10
2,2-Dichloropropane	3.6	U	3.6	10
2-Chlorotoluene	6.5	U	6.5	10
2-Hexanone	44	U	44	100
4-Chlorotoluene	5.2	U	5.2	10
4-Isopropyltoluene	6.9	U	6.9	10
Acetone	99	U	99	200
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
Carbon disulfide	8.5	U	8.5	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chlorobromomethane	5.8	U	5.8	10
Chlorodibromomethane	3.4	U	3.4	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
cis-1,2-Dichloroethene	6.5	U	6.5	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
Dibromomethane	4.1	U	4.1	10
Dichlorobromomethane	3.5	U	3.5	10
Dichlorodifluoromethane	25	U	25	50
Ethylbenzene	4.4	U	4.4	10
Ethylene Dibromide	5.0	U	5.0	10
Hexachlorobutadiene	4.0	U	4.0	10

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-82

Lab Sample ID: 660-28258-4
Client Matrix: Water

Date Sampled: 03/18/2009 1630
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/23/2009 1639
Date Prepared: 03/23/2009 1639

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2317.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	1.9	U	1.9	10
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Methyl tert-butyl ether	4.4	U	4.4	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
Methylene Chloride	40	U	40	50
m-Xylene & p-Xylene	6.0	U	6.0	20
Naphthalene	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
N-Propylbenzene	5.9	U	5.9	10
o-Xylene	5.0	U	5.0	10
sec-Butylbenzene	6.3	U	6.3	10
Styrene	9.8	U	9.8	20
tert-Butylbenzene	8.4	U	8.4	10
Tetrachloroethene	5.0	U	5.0	10
Toluene	5.1	U	5.1	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Trichloroethene	5.0	U	5.0	10
Trichlorofluoromethane	25	U	25	50
Vinyl chloride	5.0	U	5.0	10

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	100	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: MW-111

Lab Sample ID: 660-28258-1
Client Matrix: Water

Date Sampled: 03/18/2009 1100
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2009 0213
Date Prepared: 03/21/2009 0213

Analysis Batch: 660-76648

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2023.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	2.8		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: **MW-74**

Lab Sample ID: 660-28258-2
Client Matrix: Water

Date Sampled: 03/18/2009 1230
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1550
Date Prepared: 03/23/2009 1550

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2315.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	110		1.1	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: **MW-104**

Lab Sample ID: 660-28258-3
Client Matrix: Water

Date Sampled: 03/18/2009 1405
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/25/2009 0217
Date Prepared: 03/25/2009 0217

Analysis Batch: 660-76773

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2436.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	180		1.1	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28258-1
Sdg Number: 660-28258

Client Sample ID: **MW-82**

Lab Sample ID: 660-28258-4
Client Matrix: Water

Date Sampled: 03/18/2009 1630
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/23/2009 1639
Date Prepared: 03/23/2009 1639

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2317.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	700		5.4	10

Serial Number 12208

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 16

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B/8260B_SIM	HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/18/09	1100	MW-111	G	X						3	
	1230	MW-74								4	
	1405	MW-104								4	
	1630	MW-82								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3/19/09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/19/09	1115	YES ○ NO ○		28258	3.6°C CU07	

660-28258

TAL8240-660 (1207)

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28293

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10051R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28293 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-110 (Annual)	660-28293-1	WATER	3/19/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-110 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
MW-110 (Annual)	1,4-Dioxane	AC	>UL

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration (D).	Detect	No Action
	Non-detect	

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

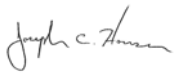
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 23, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 24, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28293-1

Client Sample ID: MW-110

Lab Sample ID: 660-28293-1
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1413
Date Prepared: 03/23/2009 1413

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2311.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	14		0.52	1.0
1,1-Dichloroethene	17		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28293-1

Client Sample ID: MW-110

Lab Sample ID: 660-28293-1
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1413
Date Prepared: 03/23/2009 1413

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2311.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	102	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28293-1

Client Sample ID: **MW-110**

Lab Sample ID: 660-28293-1
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1413
Date Prepared: 03/23/2009 1413

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2311.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	46	~~J3~~	0.54	1.0

Serial Number 12211

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 16e0-28293
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: Kathy Thalman	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSIS: 8260B; 8260B_SIM; H2I PRESERVATIVE

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 12

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/19/09	1230	MW-110	G	X				4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945		3.20.09	1100
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE 3/20/09	TIME 0945	RECEIVED BY: (SIGNATURE) Amanda Harrison	DATE 3/20/09	TIME 1100

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/20/09	1100	YES ○ NO ○		16e0-28293	3.5°C CU-07	

TAL8240-660 (1207)

Page 20 of 21

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28361-2

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10010R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28361-2 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-95 (Annual)	660-28361-6	WATER	3/23/2009		X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-95 (Annual)	CCV %D	1,2-Dibromo-3-chloropropane	-24.2%
		Chloroethane	25.1%
		Naphthalene	-20.9%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on a sample location associated with this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

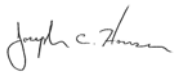
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 17, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 4, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28361-2
Sdg Number: 660-28361-2

Client Sample ID: MW-95

Lab Sample ID: 660-28361-6
Client Matrix: Water

Date Sampled: 03/23/2009 1615
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1704
Date Prepared: 03/25/2009 1704

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2516.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-2
Sdg Number: 660-28361-2

Client Sample ID: MW-95

Lab Sample ID: 660-28361-6
Client Matrix: Water

Date Sampled: 03/23/2009 1615
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1704
Date Prepared: 03/25/2009 1704

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2516.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	101	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28361-2
Sdg Number: 660-28361-2

Client Sample ID: MW-95

Lab Sample ID: 660-28361-6
Client Matrix: Water

Date Sampled: 03/23/2009 1615
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1704
Date Prepared: 03/25/2009 1704

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2516.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	5.8		0.54	1.0

Serial Number U6424

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring/Annual | Page #1 | Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28361
Fax:

PROJECT REFERENCE: Tallevast - IRAP/Annual	PROJECT NO.: B003805S.0020.0002	PROJECT LOCATION (STATE): FL	PAGE: 1 OF 2
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY: ●
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157	DATE DUE:
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE): ○
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL			DATE DUE:
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: IRAP 8260B HCl	8260B_SIM (Bromide) 300.0_28D NONE	6010B NITRIC ACID	8260B_SIM HCl	REMARKS
			NUMBER OF CONTAINERS SUBMITTED									
3/23/09	1015	MW-91	G	X				4	1	—	—	
	1548	MW-72						4	1	—	—	
	1702	MW-80						4	1	—	—	
	—	DUP-02						4	1	—	—	
	1425	EB-01						4	1	1	—	
	1615	MW-95						—	—	—	4	
	0952	MW-47						4	1	—	—	
	0945	MW-63						3	1	—	—	
	1048	MW-68						4	1	—	—	
	1258	MW-69						4	1	—	—	
	1659	MW-85						4	1	—	—	
	1143	MW-100						4	1	—	—	

RELINQUISHED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE 3/24/09	TIME 1305	RELINQUISHED BY: (SIGNATURE) DATE 3/24/09 TIME 1420
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE 3/24/09	TIME 1305	RECEIVED BY: (SIGNATURE) Amanda Harrison DATE 3/24/09 TIME 1420

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 660-28361	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/24/09	1420				2.1°, 2.9°, 3.4°	CLIENT

TAL8240-660 (1207)

Page 20 of 22

R625-EDC-001214-0

Serial Number 12223

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring/Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	REQUIRED ANALYSIS: 300.0-28D (Bromide)	REQUIRED ANALYSIS: 6010B	PRESERVATIVE: HCl	PRESERVATIVE: NONE	PRESERVATIVE: NITRIC ACID	REMARKS
3/23/09	1642	MW-158	G	X				4	1	—					
	1045	MW-239						4	1	—					
	1550	MW-44						4	1	—					
	1342	MW-71						4	1	—					
	1034	MW-98						4	1	—					
	1230	MW-43						4	1	—					
	1635	MW-57						4	1	—					
	1300	MW-32						4	1	—					
	1215	MW-33						4	1	—					
3-23-09	1530	EW-104						4	1	1					Added per client - NLT 3-26-09
3-23-09		Trip Blank						3	—	—					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/24/09	1305		3/24/09	1420
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
				3/24/09			3/24/09	1420

23 of 30

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/24/09	1420			28361	2.6°C, 2.9°C, 3.4°C	CL-07

TAL8240-660 (1207)

Page 21 of 22

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28392

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10032R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28392 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-13D (Annual)	660-28392-1	WATER	3/24/2009		X				
MW-205 (Annual)	660-28392-10	WATER	3/24/2009		X				
MW-206 (Annual)	660-28392-11	WATER	3/24/2009		X				
MW-207 (Annual)	660-28392-12	WATER	3/24/2009		X				
MW-14S (Annual)	660-28392-13	WATER	3/24/2009		X				
MW-14D (Annual)	660-28392-14	WATER	3/24/2009		X				
MW-75 (Annual)	660-28392-15	WATER	3/24/2009		X				
MW-252 (Annual)	660-28392-16	WATER	3/24/2009		X				
Trip Blank (Annual)	660-28392-17	WATER	3/24/2009		X				
MW-13S (Annual)	660-28392-2	WATER	3/24/2009		X				
MW-198 (Annual)	660-28392-3	WATER	3/24/2009		X				
MW-199 (Annual)	660-28392-4	WATER	3/24/2009		X				
MW-200 (Annual)	660-28392-5	WATER	3/24/2009		X				
MW-201 (Annual)	660-28392-6	WATER	3/24/2009		X				
MW-202 (Annual)	660-28392-7	WATER	3/24/2009		X				
MW-227 (Annual)	660-28392-8	WATER	3/24/2009		X				
MW-204 (Annual)	660-28392-9	WATER	3/24/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-252 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-13D (Annual) MW-13S (Annual) MW-198 (Annual) MW-199 (Annual) MW-200 (Annual) MW-201 (Annual) MW-202 (Annual) MW-14D (Annual)	CCV %D	1,2,4-Trichlorobenzene	-21.5%
		Bromomethane	65.6%
		Chloroethane	92.6%
		Dichlorodifluoromethane	26.5%
MW-227 (Annual) MW-204 (Annual) MW-205 (Annual) MW-206 (Annual) MW-207 (Annual) MW-14S (Annual)	CCV %D	Bromomethane	-48.2%
		Chloroethane	25.1%
		Hexachlorobutadiene	-21.6%
MW-252 (Annual) Trip Blank (Annual)	CCV %D	Bromomethane	-42.4%
		Dichlorodifluoromethane	-23.2%
MW-75 (Annual)	CCV %D	Chlorobromomethane	-20.9%
		tert-Butylbenzene	25.1%
		Trichloroethene	-21.2%
		Trichlorofluoromethane	60.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	

Initial/Continuing	Criteria	Sample Result	Qualification
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Manual integration was performed for 1,4-Dioxane analysis on the internal standard 1,4-Dioxane-d8 for sample location MW-252 (Annual). The manual integration performed by the laboratory was consistent from baseline to baseline of the primary quantitation ion; therefore the detected sample result was not qualified.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

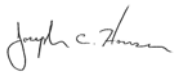
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 23, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 24, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-13D

Lab Sample ID: 660-28392-1
Client Matrix: Water

Date Sampled: 03/24/2009 1121
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0920
Date Prepared: 03/26/2009 0920

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2556.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-13D

Lab Sample ID: 660-28392-1
Client Matrix: Water

Date Sampled: 03/24/2009 1121
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0920
Date Prepared: 03/26/2009 0920

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2556.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	103	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-13S**

Lab Sample ID: 660-28392-2
Client Matrix: Water

Date Sampled: 03/24/2009 1200
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0944
Date Prepared: 03/26/2009 0944

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2557.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	R 2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-13S

Lab Sample ID: 660-28392-2
Client Matrix: Water

Date Sampled: 03/24/2009 1200
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0944
Date Prepared: 03/26/2009 0944

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2557.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	100	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-198**

Lab Sample ID: 660-28392-3
Client Matrix: Water

Date Sampled: 03/24/2009 1230
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1009
Date Prepared: 03/26/2009 1009

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2558.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-198

Lab Sample ID: 660-28392-3
Client Matrix: Water

Date Sampled: 03/24/2009 1230
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1009
Date Prepared: 03/26/2009 1009

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2558.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-199

Lab Sample ID: 660-28392-4
Client Matrix: Water

Date Sampled: 03/24/2009 1300
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1033
Date Prepared: 03/26/2009 1033

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2559.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5 R	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-199

Lab Sample ID: 660-28392-4
Client Matrix: Water

Date Sampled: 03/24/2009 1300
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1033
Date Prepared: 03/26/2009 1033

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2559.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	95	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-200**

Lab Sample ID: 660-28392-5
Client Matrix: Water

Date Sampled: 03/24/2009 1140
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1057
Date Prepared: 03/26/2009 1057

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2560.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	R 2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-200

Lab Sample ID: 660-28392-5
Client Matrix: Water

Date Sampled: 03/24/2009 1140
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1057
Date Prepared: 03/26/2009 1057

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2560.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-201**

Lab Sample ID: 660-28392-6
Client Matrix: Water

Date Sampled: 03/24/2009 1015
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1121
Date Prepared: 03/26/2009 1121

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2561.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-201

Lab Sample ID: 660-28392-6
Client Matrix: Water

Date Sampled: 03/24/2009 1015
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1121
Date Prepared: 03/26/2009 1121

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2561.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-202**

Lab Sample ID: 660-28392-7
Client Matrix: Water

Date Sampled: 03/24/2009 1120
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1146
Date Prepared: 03/26/2009 1146

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2562.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	R 2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-202

Lab Sample ID: 660-28392-7
Client Matrix: Water

Date Sampled: 03/24/2009 1120
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1146
Date Prepared: 03/26/2009 1146

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2562.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-227

Lab Sample ID: 660-28392-8
Client Matrix: Water

Date Sampled: 03/24/2009 1602
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1847
Date Prepared: 03/25/2009 1847

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2531.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-227

Lab Sample ID: 660-28392-8
Client Matrix: Water

Date Sampled: 03/24/2009 1602
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1847
Date Prepared: 03/25/2009 1847

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2531.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	117	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-204

Lab Sample ID: 660-28392-9
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1904
Date Prepared: 03/25/2009 1904

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2532.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-204

Lab Sample ID: 660-28392-9
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1904
Date Prepared: 03/25/2009 1904

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2532.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-205

Lab Sample ID: 660-28392-10
Client Matrix: Water

Date Sampled: 03/24/2009 1520
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1922
Date Prepared: 03/25/2009 1922

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2533.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-205

Lab Sample ID: 660-28392-10
Client Matrix: Water

Date Sampled: 03/24/2009 1520
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1922
Date Prepared: 03/25/2009 1922

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2533.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	108	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-206

Lab Sample ID: 660-28392-11
Client Matrix: Water

Date Sampled: 03/24/2009 1505
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1939
Date Prepared: 03/25/2009 1939

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2534.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-206

Lab Sample ID: 660-28392-11
Client Matrix: Water

Date Sampled: 03/24/2009 1505
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1939
Date Prepared: 03/25/2009 1939

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2534.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	101	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-207

Lab Sample ID: 660-28392-12
Client Matrix: Water

Date Sampled: 03/24/2009 1630
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1956
Date Prepared: 03/25/2009 1956

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2535.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	13	I	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	7.1		0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-207

Lab Sample ID: 660-28392-12
Client Matrix: Water

Date Sampled: 03/24/2009 1630
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1956
Date Prepared: 03/25/2009 1956

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2535.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-14S

Lab Sample ID: 660-28392-13
Client Matrix: Water

Date Sampled: 03/24/2009 1432
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 2013
Date Prepared: 03/25/2009 2013

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2536.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-14S

Lab Sample ID: 660-28392-13
Client Matrix: Water

Date Sampled: 03/24/2009 1432
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 2013
Date Prepared: 03/25/2009 2013

Analysis Batch: 660-76756

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2536.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	117	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-14D

Lab Sample ID: 660-28392-14
Client Matrix: Water

Date Sampled: 03/24/2009 1514
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1210
Date Prepared: 03/26/2009 1210

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2563.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	R 2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-14D

Lab Sample ID: 660-28392-14
Client Matrix: Water

Date Sampled: 03/24/2009 1514
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1210
Date Prepared: 03/26/2009 1210

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2563.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	97	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-75

Lab Sample ID: 660-28392-15
Client Matrix: Water

Date Sampled: 03/24/2009 1632
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1515
Date Prepared: 03/30/2009 1515

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2958.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	9.7		0.52	1.0
1,1-Dichloroethene	3.4		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.7		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-75

Lab Sample ID: 660-28392-15
Client Matrix: Water

Date Sampled: 03/24/2009 1632
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1515
Date Prepared: 03/30/2009 1515

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2958.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	89	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-252

Lab Sample ID: 660-28392-16
Client Matrix: Water

Date Sampled: 03/24/2009 1733
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1505
Date Prepared: 03/27/2009 1505

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.68	I	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-252

Lab Sample ID: 660-28392-16
Client Matrix: Water

Date Sampled: 03/24/2009 1733
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1505
Date Prepared: 03/27/2009 1505

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	13		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	104	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28392-17TB
Client Matrix: Water

Date Sampled: 03/24/2009 1121
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1413
Date Prepared: 03/27/2009 1413

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28392-17TB
Client Matrix: Water

Date Sampled: 03/24/2009 1121
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1413
Date Prepared: 03/27/2009 1413

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	105	70 - 130
Toluene-d8 (Surr)	118	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-13D

Lab Sample ID: 660-28392-1
Client Matrix: Water

Date Sampled: 03/24/2009 1121
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0920
Date Prepared: 03/26/2009 0920

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2556.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-13S**

Lab Sample ID: 660-28392-2
Client Matrix: Water

Date Sampled: 03/24/2009 1200
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0944
Date Prepared: 03/26/2009 0944

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2557.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-198**

Lab Sample ID: 660-28392-3
Client Matrix: Water

Date Sampled: 03/24/2009 1230
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1009
Date Prepared: 03/26/2009 1009

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2558.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.58	I	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-199**

Lab Sample ID: 660-28392-4
Client Matrix: Water

Date Sampled: 03/24/2009 1300
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1033
Date Prepared: 03/26/2009 1033

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2559.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-200

Lab Sample ID: 660-28392-5
Client Matrix: Water

Date Sampled: 03/24/2009 1140
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1057
Date Prepared: 03/26/2009 1057

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2560.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-201

Lab Sample ID: 660-28392-6
Client Matrix: Water

Date Sampled: 03/24/2009 1015
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1121
Date Prepared: 03/26/2009 1121

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2561.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-202**

Lab Sample ID: 660-28392-7
Client Matrix: Water

Date Sampled: 03/24/2009 1120
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1146
Date Prepared: 03/26/2009 1146

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2562.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-227

Lab Sample ID: 660-28392-8
Client Matrix: Water

Date Sampled: 03/24/2009 1602
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1847
Date Prepared: 03/25/2009 1847

Analysis Batch: 660-76746

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2531.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-204

Lab Sample ID: 660-28392-9
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1904
Date Prepared: 03/25/2009 1904

Analysis Batch: 660-76746

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2532.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-205

Lab Sample ID: 660-28392-10
Client Matrix: Water

Date Sampled: 03/24/2009 1520
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1922
Date Prepared: 03/25/2009 1922

Analysis Batch: 660-76746

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2533.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-206

Lab Sample ID: 660-28392-11
Client Matrix: Water

Date Sampled: 03/24/2009 1505
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1939
Date Prepared: 03/25/2009 1939

Analysis Batch: 660-76746

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2534.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-207

Lab Sample ID: 660-28392-12
Client Matrix: Water

Date Sampled: 03/24/2009 1630
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1956
Date Prepared: 03/25/2009 1956

Analysis Batch: 660-76746

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2535.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-14S

Lab Sample ID: 660-28392-13
Client Matrix: Water

Date Sampled: 03/24/2009 1432
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 2013
Date Prepared: 03/25/2009 2013

Analysis Batch: 660-76746

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2536.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-14D**

Lab Sample ID: 660-28392-14
Client Matrix: Water

Date Sampled: 03/24/2009 1514
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 1210
Date Prepared: 03/26/2009 1210

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2563.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **MW-75**

Lab Sample ID: 660-28392-15
Client Matrix: Water

Date Sampled: 03/24/2009 1632
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1515
Date Prepared: 03/30/2009 1515

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2958.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	16		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: MW-252

Lab Sample ID: 660-28392-16
Client Matrix: Water

Date Sampled: 03/24/2009 1733
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1505
Date Prepared: 03/27/2009 1505

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28392-1
Sdg Number: 660-28392

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28392-17TB
Client Matrix: Water

Date Sampled: 03/24/2009 1121
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1413
Date Prepared: 03/27/2009 1413

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Serial Number 12230

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28392

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thelman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) /INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B / 8260B_SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/24/09	1121	MW-13D	G	X						4	
	1200	MW-13S								4	
	1230	MW-19B								4	
	1300	MW-199								4	
	1140	MW-200								4	
	1015	MW-201								4	
	1120	MW-202								4	
	1602	MW-227								4	
	1615	MW-204								4	
	1520	MW-205								4	
	1505	MW-206								4	
	1630	MW-207								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin Doyle	3/25/09	1340		3/25/09	1520
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1341	Amanda Harris	3/25/09	1500

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-25-09	1500	YES ○ NO ○		1600-28392	3.1°C, 3.6°C	Cx-OT

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12231

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28392

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B 8260B_SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/24/09	1432	MW-14S	G	X						4	
	1514	MW-14D								4	
	1632	MW-75								4	
	1733	MW-252								4	
	1121	Trip Blank								3	Added per Client NCT 3-26-09

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin	3/25/09	1340		3/25/09	1500
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/25/09	1500			660-28392	3.1°C 3.6°C	ew-07

TAL8240-660 (1207)

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28429

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10052R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28429 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-223 (Annual)	660-28429-1	WATER	3/25/2009		X				
MW-21 (Annual)	660-28429-10	WATER	3/25/2009		X				
MW-59 (Annual)	660-28429-11	WATER	3/25/2009		X				
MW-61 (Annual)	660-28429-12	WATER	3/25/2009		X				
MW-109 (Annual)	660-28429-13	WATER	3/25/2009		X				
MW-173 (Annual)	660-28429-14	WATER	3/25/2009		X				
MW-174 (Annual)	660-28429-15	WATER	3/25/2009		X				
MW-121 (Annual)	660-28429-16	WATER	3/25/2009		X				
MW-27 (Annual)	660-28429-17	WATER	3/25/2009		X				
MW-54 (Annual)	660-28429-18	WATER	3/25/2009		X				
MW-248 (Annual)	660-28429-19	WATER	3/25/2009		X				
MW-224 (Annual)	660-28429-2	WATER	3/25/2009		X				
MW-105 (Annual)	660-28429-20	WATER	3/25/2009		X				
Trip Blank (Annual)	660-28429-21	WATER	3/25/2009		X				
MW-225 (Annual)	660-28429-3	WATER	3/25/2009		X				
MW-226 (Annual)	660-28429-4	WATER	3/25/2009		X				
MW-241 (Annual)	660-28429-5	WATER	3/25/2009		X				
MW-8D (Annual)	660-28429-6	WATER	3/25/2009		X				
MW-8S (Annual)	660-28429-7	WATER	3/25/2009		X				
Dup-04 (Annual)	660-28429-8	WATER	3/25/2009	MW-8D (Annual)	X				
FB-01 (Annual)	660-28429-9	WATER	3/25/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-8D (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-223 (Annual) MW-224 (Annual) MW-225 (Annual) MW-226 (Annual) MW-241 (Annual) MW-8S (Annual) Dup-04 (Annual) FB-01 (Annual) MW-21 (Annual) MW-59 (Annual) Trip Blank (Annual)	CCV %D	Bromomethane	-42.4%
		Dichlorodifluoromethane	-23.2%
MW-8D (Annual) MW-61 (Annual) MW-109 (Annual) MW-173 (Annual) MW-174 (Annual) MW-121 (Annual) MW-248 (Annual) MW-105 (Annual)	CCV %D	2,2-Dichloropropane	-41.9%
		Acetone	21.2%
		Bromomethane	-39.9%
		Dichlorodifluoromethane	-29.1%
		Hexachlorobutadiene	-21.9%
		Tetrachloroethene	57.8%
MW-27 (Annual) MW-54 (Annual)	CCV %D	Acetone	28.9%
		Bromomethane	-64.1%
		Dichlorodifluoromethane	-29.5%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-8D (Annual)/Dup-04 (Annual)	All Compounds	ND	ND	AC

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

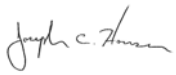
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 24, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 26, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-223

Lab Sample ID: 660-28429-1
Client Matrix: Water

Date Sampled: 03/25/2009 1110
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1522
Date Prepared: 03/27/2009 1522

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2727.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-223

Lab Sample ID: 660-28429-1
Client Matrix: Water

Date Sampled: 03/25/2009 1110
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1522
Date Prepared: 03/27/2009 1522

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2727.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	103	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-224

Lab Sample ID: 660-28429-2
Client Matrix: Water

Date Sampled: 03/25/2009 1150
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1539
Date Prepared: 03/27/2009 1539

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-224**

Lab Sample ID: 660-28429-2
Client Matrix: Water

Date Sampled: 03/25/2009 1150
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1539
Date Prepared: 03/27/2009 1539

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-225

Lab Sample ID: 660-28429-3
Client Matrix: Water

Date Sampled: 03/25/2009 1010
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1556
Date Prepared: 03/27/2009 1556

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-225**

Lab Sample ID: 660-28429-3
Client Matrix: Water

Date Sampled: 03/25/2009 1010
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1556
Date Prepared: 03/27/2009 1556

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	115	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-226

Lab Sample ID: 660-28429-4
Client Matrix: Water

Date Sampled: 03/25/2009 1053
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1613
Date Prepared: 03/27/2009 1613

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2730.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-226

Lab Sample ID: 660-28429-4
Client Matrix: Water

Date Sampled: 03/25/2009 1053
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1613
Date Prepared: 03/27/2009 1613

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2730.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	105	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-241

Lab Sample ID: 660-28429-5
Client Matrix: Water

Date Sampled: 03/25/2009 0956
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1631
Date Prepared: 03/27/2009 1631

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-241

Lab Sample ID: 660-28429-5
Client Matrix: Water

Date Sampled: 03/25/2009 0956
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1631
Date Prepared: 03/27/2009 1631

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-8D**

Lab Sample ID: 660-28429-6
Client Matrix: Water

Date Sampled: 03/25/2009 1440
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1818
Date Prepared: 03/28/2009 1818

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-8D

Lab Sample ID: 660-28429-6
Client Matrix: Water

Date Sampled: 03/25/2009 1440
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1818
Date Prepared: 03/28/2009 1818

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-8S**

Lab Sample ID: 660-28429-7
Client Matrix: Water

Date Sampled: 03/25/2009 1545
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1448
Date Prepared: 03/27/2009 1448

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2725.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-8S

Lab Sample ID: 660-28429-7
Client Matrix: Water

Date Sampled: 03/25/2009 1545
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1448
Date Prepared: 03/27/2009 1448

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2725.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	105	70 - 130
Toluene-d8 (Surr)	113	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: DUP-04

Lab Sample ID: 660-28429-8
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1648
Date Prepared: 03/27/2009 1648

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2732.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: DUP-04

Lab Sample ID: 660-28429-8
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1648
Date Prepared: 03/27/2009 1648

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2732.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	107	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: EB-01

Lab Sample ID: 660-28429-9
Client Matrix: Water

Date Sampled: 03/25/2009 1515
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1705
Date Prepared: 03/27/2009 1705

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2733.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: ~~EB-01~~

Lab Sample ID: 660-28429-9
Client Matrix: Water

Date Sampled: 03/25/2009 1515
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1705
Date Prepared: 03/27/2009 1705

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2733.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-21

Lab Sample ID: 660-28429-10
Client Matrix: Water

Date Sampled: 03/25/2009 1040
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1722
Date Prepared: 03/27/2009 1722

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2734.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-21**

Lab Sample ID: 660-28429-10
Client Matrix: Water

Date Sampled: 03/25/2009 1040
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1722
Date Prepared: 03/27/2009 1722

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2734.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-59

Lab Sample ID: 660-28429-11
Client Matrix: Water

Date Sampled: 03/25/2009 1551
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1739
Date Prepared: 03/27/2009 1739

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2735.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	18	I	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-59

Lab Sample ID: 660-28429-11
Client Matrix: Water

Date Sampled: 03/25/2009 1551
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1739
Date Prepared: 03/27/2009 1739

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2735.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	107	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-61

Lab Sample ID: 660-28429-12
Client Matrix: Water

Date Sampled: 03/25/2009 1353
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1543
Date Prepared: 03/28/2009 1543

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2719.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-61

Lab Sample ID: 660-28429-12
Client Matrix: Water

Date Sampled: 03/25/2009 1353
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1543
Date Prepared: 03/28/2009 1543

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2719.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	108	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-109**

Lab Sample ID: 660-28429-13
Client Matrix: Water

Date Sampled: 03/25/2009 0929
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1600
Date Prepared: 03/28/2009 1600

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2720.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	1.2		0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-109**

Lab Sample ID: 660-28429-13
Client Matrix: Water

Date Sampled: 03/25/2009 0929
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1600
Date Prepared: 03/28/2009 1600

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2720.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	108	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-173

Lab Sample ID: 660-28429-14
Client Matrix: Water

Date Sampled: 03/25/2009 1611
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1618
Date Prepared: 03/28/2009 1618

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2721.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-173

Lab Sample ID: 660-28429-14
Client Matrix: Water

Date Sampled: 03/25/2009 1611
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1618
Date Prepared: 03/28/2009 1618

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2721.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-174

Lab Sample ID: 660-28429-15
Client Matrix: Water

Date Sampled: 03/25/2009 1433
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1635
Date Prepared: 03/28/2009 1635

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2722.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-174

Lab Sample ID: 660-28429-15
Client Matrix: Water

Date Sampled: 03/25/2009 1433
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1635
Date Prepared: 03/28/2009 1635

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2722.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-121

Lab Sample ID: 660-28429-16
Client Matrix: Water

Date Sampled: 03/25/2009 1525
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1652
Date Prepared: 03/28/2009 1652

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-121

Lab Sample ID: 660-28429-16
Client Matrix: Water

Date Sampled: 03/25/2009 1525
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1652
Date Prepared: 03/28/2009 1652

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	74 - 126
Dibromofluoromethane	108	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-27

Lab Sample ID: 660-28429-17
Client Matrix: Water

Date Sampled: 03/25/2009 1655
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 03/30/2009 1415
Date Prepared: 03/30/2009 1415

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3022.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	12	U	12	25
1,1,2,2-Tetrachloroethane	3.8	U	3.8	25
1,1,2-Trichloroethane	12	U	12	25
1,1-Dichloroethane	200		13	25
1,1-Dichloroethene	230		11	25
1,1-Dichloropropene	7.8	U	7.8	25
1,2,3-Trichlorobenzene	19	U	19	25
1,2,3-Trichloropropane	4.5	U	4.5	25
1,2,4-Trichlorobenzene	14	U	14	25
1,2,4-Trimethylbenzene	22	U	22	25
1,2-Dibromo-3-Chloropropane	62	U	62	120
1,2-Dichlorobenzene	11	U	11	25
1,2-Dichloroethane	14	U	14	25
1,2-Dichloropropane	13	U	13	25
1,3,5-Trimethylbenzene	14	U	14	25
1,3-Dichlorobenzene	16	U	16	25
1,3-Dichloropropane	9.8	U	9.8	25
1,4-Dichlorobenzene	13	U	13	25
2,2-Dichloropropane	9.0	U	9.0	25
2-Chlorotoluene	16	U	16	25
2-Hexanone	110	U	110	250
4-Chlorotoluene	13	U	13	25
4-Isopropyltoluene	17	U	17	25
Acetone	250	U	250	500
Benzene	12	U	12	25
Bromobenzene	14	U	14	25
Bromoform	14	U	14	25
Bromomethane	62	U J	62	120
Carbon disulfide	21	U	21	25
Carbon tetrachloride	10	U	10	25
Chlorobenzene	16	U	16	25
Chlorobromomethane	14	U	14	25
Chlorodibromomethane	8.5	U	8.5	25
Chloroethane	62	U	62	120
Chloroform	22	U	22	25
Chloromethane	25	U	25	100
cis-1,2-Dichloroethene	16	U	16	25
cis-1,3-Dichloropropene	3.5	U	3.5	25
Dibromomethane	10	U	10	25
Dichlorobromomethane	8.8	U	8.8	25
Dichlorodifluoromethane	62	U J	62	120
Ethylbenzene	11	U	11	25
Ethylene Dibromide	12	U	12	25
Hexachlorobutadiene	10	U	10	25

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-27**

Lab Sample ID: 660-28429-17
Client Matrix: Water

Date Sampled: 03/25/2009 1655
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 03/30/2009 1415
Date Prepared: 03/30/2009 1415

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3022.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	4.8	U	4.8	25
2-Butanone (MEK)	210	U	210	250
4-Methyl-2-pentanone (MIBK)	95	U	95	250
Methyl tert-butyl ether	11	U	11	25
1,1,1,2-Tetrachloroethane	16	U	16	25
Methylene Chloride	100	U	100	120
m-Xylene & p-Xylene	15	U	15	50
Naphthalene	62	U	62	120
n-Butylbenzene	17	U	17	25
N-Propylbenzene	15	U	15	25
o-Xylene	12	U	12	25
sec-Butylbenzene	16	U	16	25
Styrene	24	U	24	50
tert-Butylbenzene	21	U	21	25
Tetrachloroethene	130		12	25
Toluene	13	U	13	25
trans-1,2-Dichloroethene	11	U	11	25
trans-1,3-Dichloropropene	3.5	U	3.5	25
Trichloroethene	39		12	25
Trichlorofluoromethane	62	U	62	120
Vinyl chloride	12	U	12	25

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-54

Lab Sample ID: 660-28429-18
Client Matrix: Water

Date Sampled: 03/25/2009 1641
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1707
Date Prepared: 03/30/2009 1707

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3032.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-54

Lab Sample ID: 660-28429-18
Client Matrix: Water

Date Sampled: 03/25/2009 1641
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1707
Date Prepared: 03/30/2009 1707

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3032.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-248

Lab Sample ID: 660-28429-19
Client Matrix: Water

Date Sampled: 03/25/2009 1530
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1744
Date Prepared: 03/28/2009 1744

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-248

Lab Sample ID: 660-28429-19
Client Matrix: Water

Date Sampled: 03/25/2009 1530
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1744
Date Prepared: 03/28/2009 1744

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-105

Lab Sample ID: 660-28429-20
Client Matrix: Water

Date Sampled: 03/25/2009 1510
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1801
Date Prepared: 03/28/2009 1801

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2727.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-105

Lab Sample ID: 660-28429-20
Client Matrix: Water

Date Sampled: 03/25/2009 1510
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1801
Date Prepared: 03/28/2009 1801

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2727.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	90	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28429-21
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1430
Date Prepared: 03/27/2009 1430

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2724.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28429-21
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1430
Date Prepared: 03/27/2009 1430

Analysis Batch: 660-76880

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2724.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-223

Lab Sample ID: 660-28429-1
Client Matrix: Water

Date Sampled: 03/25/2009 1110
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1522
Date Prepared: 03/27/2009 1522

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2727.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-224**

Lab Sample ID: 660-28429-2
Client Matrix: Water

Date Sampled: 03/25/2009 1150
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1539
Date Prepared: 03/27/2009 1539

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-225**

Lab Sample ID: 660-28429-3
Client Matrix: Water

Date Sampled: 03/25/2009 1010
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1556
Date Prepared: 03/27/2009 1556

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-226**

Lab Sample ID: 660-28429-4
Client Matrix: Water

Date Sampled: 03/25/2009 1053
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1613
Date Prepared: 03/27/2009 1613

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2730.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-241

Lab Sample ID: 660-28429-5
Client Matrix: Water

Date Sampled: 03/25/2009 0956
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1631
Date Prepared: 03/27/2009 1631

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-8D**

Lab Sample ID: 660-28429-6
Client Matrix: Water

Date Sampled: 03/25/2009 1440
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1818
Date Prepared: 03/28/2009 1818

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-8S**

Lab Sample ID: 660-28429-7
Client Matrix: Water

Date Sampled: 03/25/2009 1545
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1448
Date Prepared: 03/27/2009 1448

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2725.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **DUP-04**

Lab Sample ID: 660-28429-8
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1648
Date Prepared: 03/27/2009 1648

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2732.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: EB-01

Lab Sample ID: 660-28429-9
Client Matrix: Water

Date Sampled: 03/25/2009 1515
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1705
Date Prepared: 03/27/2009 1705

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2733.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-21**

Lab Sample ID: 660-28429-10
Client Matrix: Water

Date Sampled: 03/25/2009 1040
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1722
Date Prepared: 03/27/2009 1722

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2734.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-59**

Lab Sample ID: 660-28429-11
Client Matrix: Water

Date Sampled: 03/25/2009 1551
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1739
Date Prepared: 03/27/2009 1739

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2735.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-61**

Lab Sample ID: 660-28429-12
Client Matrix: Water

Date Sampled: 03/25/2009 1353
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1543
Date Prepared: 03/28/2009 1543

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2719.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-109**

Lab Sample ID: 660-28429-13
Client Matrix: Water

Date Sampled: 03/25/2009 0929
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1600
Date Prepared: 03/28/2009 1600

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2720.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	12		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-173**

Lab Sample ID: 660-28429-14
Client Matrix: Water

Date Sampled: 03/25/2009 1611
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1618
Date Prepared: 03/28/2009 1618

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2721.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-174**

Lab Sample ID: 660-28429-15
Client Matrix: Water

Date Sampled: 03/25/2009 1433
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1635
Date Prepared: 03/28/2009 1635

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2722.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-121**

Lab Sample ID: 660-28429-16
Client Matrix: Water

Date Sampled: 03/25/2009 1525
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1652
Date Prepared: 03/28/2009 1652

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-27**

Lab Sample ID: 660-28429-17
Client Matrix: Water

Date Sampled: 03/25/2009 1655
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 25
Date Analyzed: 03/30/2009 1415
Date Prepared: 03/30/2009 1415

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3022.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1100		25	50

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **MW-54**

Lab Sample ID: 660-28429-18
Client Matrix: Water

Date Sampled: 03/25/2009 1641
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1707
Date Prepared: 03/30/2009 1707

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3032.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-248

Lab Sample ID: 660-28429-19
Client Matrix: Water

Date Sampled: 03/25/2009 1530
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1249
Date Prepared: 03/30/2009 1249

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3017.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: MW-105

Lab Sample ID: 660-28429-20
Client Matrix: Water

Date Sampled: 03/25/2009 1510
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1306
Date Prepared: 03/30/2009 1306

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3018.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28429-1
Sdg Number: 660-28429

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28429-21
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1430
Date Prepared: 03/27/2009 1430

Analysis Batch: 660-76901

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2724.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Serial Number 12234

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6660-28429
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B003505S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3136	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/25/09	1110	MW-223	G	X							4	
	1150	MW-224									4	
	1010	MW-225									4	
	1053	MW-226									4	
	0956	MW-241									4	
	1440	MW-8D									4	
	1545	MW-8S									3	
	—	DUP-04									4	
	1440	MW-8D MSD									4	
	1440	MW-8D MS									4	
	1515	EB-01									4	
	1040	MW-21									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235	Amanda Harrison	3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350	YES ○ NO ○		660-28429	3.4°C	CW-07

TAL8240-660 (1207)

Page 93 of 95

R625-EDC-001214-0

Serial Number 12235

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO. #1	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME SEE PAGE	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/25/09	1551	MW-59	G	X				4	
	1353	MW-61						4	
	0929	MW-109						4	
	1611	MW-173						4	
	1433	MW-174						4	
	1525	MW-121						4	
	1655	MW-27						4	
	1641	MW-54						4	
	1530	MW-248						4	
	1510	MW-105						4	
		Trip Blank						3	Added per client NLT 3.26.09

HCl 8260B 8260B-SIM

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-26-09	1350			660-28429	3.4°C	CW-07

TAL8240-660 (1207)

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28462

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10065R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28462 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-152 (Annual)	660-28462-1	WATER	3/26/2009		X				
MW-29 (Annual)	660-28462-10	WATER	3/26/2009		X				
MW-137 (Annual)	660-28462-11	WATER	3/26/2009		X				
MW-136 (Annual)	660-28462-12	WATER	3/26/2009		X				
MW-138 (Annual)	660-28462-13	WATER	3/26/2009		X				
MW-18S (Annual)	660-28462-14	WATER	3/26/2009		X				
MW-18D (Annual)	660-28462-15	WATER	3/26/2009		X				
MW-195 (Annual)	660-28462-16	WATER	3/26/2009		X				
MW-193 (Annual)	660-28462-17	WATER	3/26/2009		X				
MW-194 (Annual)	660-28462-18	WATER	3/26/2009		X				
MW-228 (Annual)	660-28462-19	WATER	3/26/2009		X				
MW-154 (Annual)	660-28462-2	WATER	3/26/2009		X				
MW-30 (Annual)	660-28462-20	WATER	3/26/2009		X				
MW-58 (Annual)	660-28462-21	WATER	3/26/2009		X				
MW-171 (Annual)	660-28462-22	WATER	3/26/2009		X				
MW-129 (Annual)	660-28462-23	WATER	3/26/2009		X				
FB-02 (Annual)	660-28462-24	WATER	3/26/2009		X				
MW-142 (Annual)	660-28462-25	WATER	3/27/2009		X				
MW-139 (Annual)	660-28462-26	WATER	3/27/2009		X				
MW-140 (Annual)	660-28462-27	WATER	3/27/2009		X				
MW-64 (Annual)	660-28462-28	WATER	3/27/2009		X				
MW-52 (Annual)	660-28462-29	WATER	3/27/2009		X				
MW-153 (Annual)	660-28462-3	WATER	3/26/2009		X				
MW-96 (Annual)	660-28462-30	WATER	3/27/2009		X				
MW-144 (Annual)	660-28462-31	WATER	3/27/2009		X				
MW-141 (Annual)	660-28462-32	WATER	3/27/2009		X				
MW-246 (Annual)	660-28462-33	WATER	3/27/2009		X				

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-245 (Annual)	660-28462-34	WATER	3/27/2009		X				
MW-45 (Annual)	660-28462-35	WATER	3/27/2009		X				
MW-247 (Annual)	660-28462-36	WATER	3/27/2009		X				
MW-56 (Annual)	660-28462-37	WATER	3/27/2009		X				
MW-172 (Annual)	660-28462-38	WATER	3/27/2009		X				
MW-88 (Annual)	660-28462-39	WATER	3/27/2009		X				
MW-151 (Annual)	660-28462-4	WATER	3/26/2009		X				
MW-73 (Annual)	660-28462-40	WATER	3/27/2009		X				
Dup-06 (Annual)	660-28462-41	WATER	3/27/2009	MW-52 (Annual)	X				
MW-28 (Annual)	660-28462-42	WATER	3/27/2009		X				
MW-53 (Annual)	660-28462-43	WATER	3/27/2009		X				
FB-03 (Annual)	660-28462-44	WATER	3/27/2009		X				
MW-242 (Annual)	660-28462-5	WATER	3/26/2009		X				
MW-243 (Annual)	660-28462-6	WATER	3/26/2009		X				
MW-244 (Annual)	660-28462-7	WATER	3/26/2009		X				
MW-175 (Annual)	660-28462-8	WATER	3/26/2009		X				
MW-133 (Annual)	660-28462-9	WATER	3/26/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample locations MW-30 (Annual), MW-53 (Annual), MW-58 (Annual), MW-139 (Annual), MW-154 (Annual) (MS only) and MW-172 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-152 (Annual) MW-154 (Annual) MW-153 (Annual) MW-151 (Annual) MW-242 (Annual) MW-243 (Annual) MW-244 (Annual) MW-175 (Annual) MW-133 (Annual) MW-137 (Annual) MW-136 (Annual) MW-138 (Annual) MW-18S (Annual) MW-18D (Annual) MW-195 (Annual) MW-193 (Annual) MW-194 (Annual) MW-228 (Annual)	CCV %D	Acetone	27.0%
		Bromomethane	-62.9%
		Dichlorodifluoromethane	-29.9%
		Tetrachloroethene	25.7%
MW-29 (Annual) MW-30 (Annual) MW-88 (Annual) MW-73 (Annual) Dup-06 (Annual) MW-28 (Annual) MW-53 (Annual) FB-03 (Annual)	CCV %D	Acetone	28.9%
		Bromomethane	-64.1%
		Dichlorodifluoromethane	-29.5%
MW-58 (Annual) MW-171 (Annual) MW-129 (Annual) MW-142 (Annual) MW-140 (Annual) MW-96 (Annual) MW-245 (Annual) MW-45 (Annual) MW-247 (Annual) MW-56 (Annual)	CCV %D	Chlorobromomethane	-20.9%
		tert-Butylbenzene	25.1%
		Trichloroethene	-21.2%
		Trichlorofluoromethane	60.6%

Sample Locations	Initial/Continuing	Compound	Criteria
FB-02 (Annual) MW-139 (Annual)	CCV %D	2,2-Dichloropropane	-21.0%
		Acetone	40.6%
		Bromomethane	-34.3%
		Carbon tetrachloride	-24.8%
		Chlorobromomethane	-29.5%
		Chloroethane	39.1%
		Chloroethane	39.1%
		Methyl tert-butyl ether	-20.3%
		Trichloroethene	-28.8%
MW-64 (Annual) MW-52 (Annual) MW-144 (Annual) MW-141 (Annual) MW-246 (Annual) MW-172 (Annual)	CCV %D	2-Hexanone	30.2%
		4-Methyl-2-pentanone	30.9%
		Acetone	40.1%
		Bromomethane	-30.3%
		Carbon tetrachloride	-27.8%
		Chlorobromomethane	-24.7%
		Chloroethane	37.0%
		tert-Butylbenzene	21.6%
		Trichloroethene	-25.2%
		Trichlorofluoromethane	64.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
MW-154 (Annual)	Chlorobenzene	<LL but >10%	-
	Toluene		

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration (D).	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
MW-53 (Annual)	Chlorobenzene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	J
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-52 (Annual)/Dup-06 (Annual)	Toluene	0.8 I	ND(0.51)	AC

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Manual integration was performed for 1,4-Dioxane analysis on the internal standard 1,4-Dioxane-d8 for

sample locations MW-29 (Annual), MW-142 (Annual) and MW-245 (Annual). The manual integration performed by the laboratory was consistent from baseline to baseline of the primary quantitation ion; therefore the sample results were not qualified.

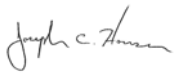
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X	X		
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 27, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 5, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-152

Lab Sample ID: 660-28462-1
Client Matrix: Water

Date Sampled: 03/26/2009 0936
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0146
Date Prepared: 03/29/2009 0146

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2854.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-152

Lab Sample ID: 660-28462-1
Client Matrix: Water

Date Sampled: 03/26/2009 0936
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0146
Date Prepared: 03/29/2009 0146

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2854.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	90	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-154

Lab Sample ID: 660-28462-2
Client Matrix: Water

Date Sampled: 03/26/2009 1014
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0203
Date Prepared: 03/29/2009 0203

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2855.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U ~~J3~~ J	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-154

Lab Sample ID: 660-28462-2
Client Matrix: Water

Date Sampled: 03/26/2009 1014
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0203
Date Prepared: 03/29/2009 0203

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2855.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U J3 J	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-153

Lab Sample ID: 660-28462-3
Client Matrix: Water

Date Sampled: 03/26/2009 1050
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0220
Date Prepared: 03/29/2009 0220

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2856.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-153

Lab Sample ID: 660-28462-3
Client Matrix: Water

Date Sampled: 03/26/2009 1050
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0220
Date Prepared: 03/29/2009 0220

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2856.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-151

Lab Sample ID: 660-28462-4
Client Matrix: Water

Date Sampled: 03/26/2009 1128
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0237
Date Prepared: 03/29/2009 0237

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2857.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-151

Lab Sample ID: 660-28462-4
Client Matrix: Water

Date Sampled: 03/26/2009 1128
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0237
Date Prepared: 03/29/2009 0237

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2857.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-242

Lab Sample ID: 660-28462-5
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0255
Date Prepared: 03/29/2009 0255

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2858.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	20	J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-242

Lab Sample ID: 660-28462-5
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0255
Date Prepared: 03/29/2009 0255

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2858.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-243

Lab Sample ID: 660-28462-6
Client Matrix: Water

Date Sampled: 03/26/2009 1430
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0312
Date Prepared: 03/29/2009 0312

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2859.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-243

Lab Sample ID: 660-28462-6
Client Matrix: Water

Date Sampled: 03/26/2009 1430
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0312
Date Prepared: 03/29/2009 0312

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2859.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	118	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-244

Lab Sample ID: 660-28462-7
Client Matrix: Water

Date Sampled: 03/26/2009 1512
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0329
Date Prepared: 03/29/2009 0329

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2860.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-244

Lab Sample ID: 660-28462-7
Client Matrix: Water

Date Sampled: 03/26/2009 1512
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0329
Date Prepared: 03/29/2009 0329

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2860.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-175

Lab Sample ID: 660-28462-8
Client Matrix: Water

Date Sampled: 03/26/2009 1557
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0346
Date Prepared: 03/29/2009 0346

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2861.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-175

Lab Sample ID: 660-28462-8
Client Matrix: Water

Date Sampled: 03/26/2009 1557
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0346
Date Prepared: 03/29/2009 0346

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2861.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-133

Lab Sample ID: 660-28462-9
Client Matrix: Water

Date Sampled: 03/26/2009 1445
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0403
Date Prepared: 03/29/2009 0403

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2862.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	240	J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-133

Lab Sample ID: 660-28462-9
Client Matrix: Water

Date Sampled: 03/26/2009 1445
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0403
Date Prepared: 03/29/2009 0403

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2862.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-29

Lab Sample ID: 660-28462-10
Client Matrix: Water

Date Sampled: 03/26/2009 1625
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/30/2009 1433
Date Prepared: 03/30/2009 1433

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3023.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
1,1-Dichloroethane	9.7		1.0	2.0
1,1-Dichloroethene	7.2		0.90	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	10
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
2-Chlorotoluene	1.3	U	1.3	2.0
2-Hexanone	8.8	U	8.8	20
4-Chlorotoluene	1.0	U	1.0	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Acetone	20	U	20	40
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U J	5.0	10
Carbon disulfide	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	1.3	U	1.3	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
cis-1,2-Dichloroethene	11		1.3	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
Dibromomethane	0.82	U	0.82	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Dichlorodifluoromethane	5.0	U J	5.0	10
Ethylbenzene	0.88	U	0.88	2.0
Ethylene Dibromide	1.0	U	1.0	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-29

Lab Sample ID: 660-28462-10
Client Matrix: Water

Date Sampled: 03/26/2009 1625
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/30/2009 1433
Date Prepared: 03/30/2009 1433

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3023.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.38	U	0.38	2.0
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
Methylene Chloride	8.0	U	8.0	10
m-Xylene & p-Xylene	1.2	U	1.2	4.0
Naphthalene	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
N-Propylbenzene	1.2	U	1.2	2.0
o-Xylene	1.0	U	1.0	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
Styrene	2.0	U	2.0	4.0
tert-Butylbenzene	1.7	U	1.7	2.0
Tetrachloroethene	1.0	U	1.0	2.0
Toluene	1.0	U	1.0	2.0
trans-1,2-Dichloroethene	6.1		0.88	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Trichloroethene	140		1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
Vinyl chloride	1.0	U	1.0	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-137

Lab Sample ID: 660-28462-11
Client Matrix: Water

Date Sampled: 03/26/2009 1650
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0438
Date Prepared: 03/29/2009 0438

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2864.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-137

Lab Sample ID: 660-28462-11
Client Matrix: Water

Date Sampled: 03/26/2009 1650
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0438
Date Prepared: 03/29/2009 0438

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2864.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-136

Lab Sample ID: 660-28462-12
Client Matrix: Water

Date Sampled: 03/26/2009 1600
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0455
Date Prepared: 03/29/2009 0455

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2865.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-136

Lab Sample ID: 660-28462-12
Client Matrix: Water

Date Sampled: 03/26/2009 1600
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0455
Date Prepared: 03/29/2009 0455

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2865.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-138

Lab Sample ID: 660-28462-13
Client Matrix: Water

Date Sampled: 03/26/2009 1615
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0512
Date Prepared: 03/29/2009 0512

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2866.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-138

Lab Sample ID: 660-28462-13
Client Matrix: Water

Date Sampled: 03/26/2009 1615
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0512
Date Prepared: 03/29/2009 0512

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2866.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	101	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-18S

Lab Sample ID: 660-28462-14
Client Matrix: Water

Date Sampled: 03/26/2009 1125
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0529
Date Prepared: 03/29/2009 0529

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2867.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-18S

Lab Sample ID: 660-28462-14
Client Matrix: Water

Date Sampled: 03/26/2009 1125
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0529
Date Prepared: 03/29/2009 0529

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2867.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-18D

Lab Sample ID: 660-28462-15
Client Matrix: Water

Date Sampled: 03/26/2009 1115
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0547
Date Prepared: 03/29/2009 0547

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2868.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.99	I	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-18D

Lab Sample ID: 660-28462-15
Client Matrix: Water

Date Sampled: 03/26/2009 1115
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0547
Date Prepared: 03/29/2009 0547

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2868.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	2.2		0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-195

Lab Sample ID: 660-28462-16
Client Matrix: Water

Date Sampled: 03/26/2009 1455
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0604
Date Prepared: 03/29/2009 0604

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2869.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-195

Lab Sample ID: 660-28462-16
Client Matrix: Water

Date Sampled: 03/26/2009 1455
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0604
Date Prepared: 03/29/2009 0604

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2869.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.65	I	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-193

Lab Sample ID: 660-28462-17
Client Matrix: Water

Date Sampled: 03/26/2009 1030
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0621
Date Prepared: 03/29/2009 0621

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2870.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-193

Lab Sample ID: 660-28462-17
Client Matrix: Water

Date Sampled: 03/26/2009 1030
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0621
Date Prepared: 03/29/2009 0621

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2870.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-194

Lab Sample ID: 660-28462-18
Client Matrix: Water

Date Sampled: 03/26/2009 1105
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0638
Date Prepared: 03/29/2009 0638

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2871.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-194

Lab Sample ID: 660-28462-18
Client Matrix: Water

Date Sampled: 03/26/2009 1105
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0638
Date Prepared: 03/29/2009 0638

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2871.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-228

Lab Sample ID: 660-28462-19
Client Matrix: Water

Date Sampled: 03/26/2009 0920
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0655
Date Prepared: 03/29/2009 0655

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2872.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-228

Lab Sample ID: 660-28462-19
Client Matrix: Water

Date Sampled: 03/26/2009 0920
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0655
Date Prepared: 03/29/2009 0655

Analysis Batch: 660-76980

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2872.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-30

Lab Sample ID: 660-28462-20
Client Matrix: Water

Date Sampled: 03/26/2009 1522
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1450
Date Prepared: 03/30/2009 1450

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3024.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	20	J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-30

Lab Sample ID: 660-28462-20
Client Matrix: Water

Date Sampled: 03/26/2009 1522
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1450
Date Prepared: 03/30/2009 1450

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3024.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-58

Lab Sample ID: 660-28462-21
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 0951
Date Prepared: 03/30/2009 0951

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2945.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-58**

Lab Sample ID: 660-28462-21
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 0951
Date Prepared: 03/30/2009 0951

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2945.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-171

Lab Sample ID: 660-28462-22
Client Matrix: Water

Date Sampled: 03/26/2009 1039
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1104
Date Prepared: 03/30/2009 1104

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2948.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-171

Lab Sample ID: 660-28462-22
Client Matrix: Water

Date Sampled: 03/26/2009 1039
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1104
Date Prepared: 03/30/2009 1104

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2948.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-129

Lab Sample ID: 660-28462-23
Client Matrix: Water

Date Sampled: 03/26/2009 1220
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1128
Date Prepared: 03/30/2009 1128

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2949.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-129

Lab Sample ID: 660-28462-23
Client Matrix: Water

Date Sampled: 03/26/2009 1220
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1128
Date Prepared: 03/30/2009 1128

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2949.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	103	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: FB-02

Lab Sample ID: 660-28462-24FB
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1419
Date Prepared: 03/31/2009 1419

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3110.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: FB-02

Lab Sample ID: 660-28462-24FB
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1419
Date Prepared: 03/31/2009 1419

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3110.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	74 - 126
Dibromofluoromethane	83	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-142

Lab Sample ID: 660-28462-25
Client Matrix: Water

Date Sampled: 03/27/2009 1030
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1152
Date Prepared: 03/30/2009 1152

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2950.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-142

Lab Sample ID: 660-28462-25
Client Matrix: Water

Date Sampled: 03/27/2009 1030
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1152
Date Prepared: 03/30/2009 1152

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2950.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	89	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-139

Lab Sample ID: 660-28462-26
Client Matrix: Water

Date Sampled: 03/27/2009 0925
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1446
Date Prepared: 03/31/2009 1446

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3111.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-139

Lab Sample ID: 660-28462-26
Client Matrix: Water

Date Sampled: 03/27/2009 0925
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1446
Date Prepared: 03/31/2009 1446

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3111.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-140**

Lab Sample ID: 660-28462-27
Client Matrix: Water

Date Sampled: 03/27/2009 0910
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1245
Date Prepared: 03/30/2009 1245

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2952.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-140

Lab Sample ID: 660-28462-27
Client Matrix: Water

Date Sampled: 03/27/2009 0910
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1245
Date Prepared: 03/30/2009 1245

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2952.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-64

Lab Sample ID: 660-28462-28
Client Matrix: Water

Date Sampled: 03/27/2009 1150
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0416
Date Prepared: 03/31/2009 0416

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3026.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	5.7		0.52	1.0
1,1-Dichloroethene	3.7		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	7.1		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-64

Lab Sample ID: 660-28462-28
Client Matrix: Water

Date Sampled: 03/27/2009 1150
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0416
Date Prepared: 03/31/2009 0416

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3026.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	4.7		0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	14	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-52**

Lab Sample ID: 660-28462-29
Client Matrix: Water

Date Sampled: 03/27/2009 1020
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0440
Date Prepared: 03/31/2009 0440

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3027.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-52

Lab Sample ID: 660-28462-29
Client Matrix: Water

Date Sampled: 03/27/2009 1020
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0440
Date Prepared: 03/31/2009 0440

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3027.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.80	I	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-96

Lab Sample ID: 660-28462-30
Client Matrix: Water

Date Sampled: 03/27/2009 1240
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1401
Date Prepared: 03/30/2009 1401

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2955.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-96

Lab Sample ID: 660-28462-30
Client Matrix: Water

Date Sampled: 03/27/2009 1240
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1401
Date Prepared: 03/30/2009 1401

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2955.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-144

Lab Sample ID: 660-28462-31
Client Matrix: Water

Date Sampled: 03/27/2009 1250
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0505
Date Prepared: 03/31/2009 0505

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3028.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-144**

Lab Sample ID: 660-28462-31
Client Matrix: Water

Date Sampled: 03/27/2009 1250
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0505
Date Prepared: 03/31/2009 0505

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3028.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-141**

Lab Sample ID: 660-28462-32
Client Matrix: Water

Date Sampled: 03/27/2009 1335
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0535
Date Prepared: 03/31/2009 0535

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3029.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-141

Lab Sample ID: 660-28462-32
Client Matrix: Water

Date Sampled: 03/27/2009 1335
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0535
Date Prepared: 03/31/2009 0535

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3029.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-246

Lab Sample ID: 660-28462-33
Client Matrix: Water

Date Sampled: 03/27/2009 0910
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0559
Date Prepared: 03/31/2009 0559

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3030.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-246

Lab Sample ID: 660-28462-33
Client Matrix: Water

Date Sampled: 03/27/2009 0910
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0559
Date Prepared: 03/31/2009 0559

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3030.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-245

Lab Sample ID: 660-28462-34
Client Matrix: Water

Date Sampled: 03/27/2009 0940
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1540
Date Prepared: 03/30/2009 1540

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2959.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-245**

Lab Sample ID: 660-28462-34
Client Matrix: Water

Date Sampled: 03/27/2009 0940
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1540
Date Prepared: 03/30/2009 1540

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2959.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-45

Lab Sample ID: 660-28462-35
Client Matrix: Water

Date Sampled: 03/27/2009 1129
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1605
Date Prepared: 03/30/2009 1605

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2960.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	4.8		0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-45

Lab Sample ID: 660-28462-35
Client Matrix: Water

Date Sampled: 03/27/2009 1129
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1605
Date Prepared: 03/30/2009 1605

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2960.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.94	I	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-247

Lab Sample ID: 660-28462-36
Client Matrix: Water

Date Sampled: 03/27/2009 0838
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1629
Date Prepared: 03/30/2009 1629

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2961.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-247

Lab Sample ID: 660-28462-36
Client Matrix: Water

Date Sampled: 03/27/2009 0838
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1629
Date Prepared: 03/30/2009 1629

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2961.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-56

Lab Sample ID: 660-28462-37
Client Matrix: Water

Date Sampled: 03/27/2009 1049
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1655
Date Prepared: 03/30/2009 1655

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2962.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-56**

Lab Sample ID: 660-28462-37
Client Matrix: Water

Date Sampled: 03/27/2009 1049
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1655
Date Prepared: 03/30/2009 1655

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2962.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-172

Lab Sample ID: 660-28462-38
Client Matrix: Water

Date Sampled: 03/27/2009 1328
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0116
Date Prepared: 03/31/2009 0116

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3019.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-172

Lab Sample ID: 660-28462-38
Client Matrix: Water

Date Sampled: 03/27/2009 1328
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0116
Date Prepared: 03/31/2009 0116

Analysis Batch: 660-77160

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3019.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	103	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-88

Lab Sample ID: 660-28462-39
Client Matrix: Water

Date Sampled: 03/27/2009 1122
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1507
Date Prepared: 03/30/2009 1507

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3025.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-88

Lab Sample ID: 660-28462-39
Client Matrix: Water

Date Sampled: 03/27/2009 1122
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1507
Date Prepared: 03/30/2009 1507

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3025.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-73

Lab Sample ID: 660-28462-40
Client Matrix: Water

Date Sampled: 03/27/2009 0927
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1524
Date Prepared: 03/30/2009 1524

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3026.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	20		0.52	1.0
1,1-Dichloroethene	45		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-73**

Lab Sample ID: 660-28462-40
Client Matrix: Water

Date Sampled: 03/27/2009 0927
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1524
Date Prepared: 03/30/2009 1524

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3026.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	7.5		0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	7.9		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: DUP-06

Lab Sample ID: 660-28462-41FD
Client Matrix: Water

Date Sampled: 03/27/2009 0000
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1541
Date Prepared: 03/30/2009 1541

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3027.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: DUP-06

Lab Sample ID: 660-28462-41FD
Client Matrix: Water

Date Sampled: 03/27/2009 0000
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1541
Date Prepared: 03/30/2009 1541

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3027.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-28

Lab Sample ID: 660-28462-42
Client Matrix: Water

Date Sampled: 03/27/2009 1500
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1559
Date Prepared: 03/30/2009 1559

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3028.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	3.1		0.52	1.0
1,1-Dichloroethene	1.1		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-28

Lab Sample ID: 660-28462-42
Client Matrix: Water

Date Sampled: 03/27/2009 1500
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1559
Date Prepared: 03/30/2009 1559

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3028.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-53

Lab Sample ID: 660-28462-43
Client Matrix: Water

Date Sampled: 03/27/2009 1502
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1633
Date Prepared: 03/30/2009 1633

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3030.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U ~~J3~~ J	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-53

Lab Sample ID: 660-28462-43
Client Matrix: Water

Date Sampled: 03/27/2009 1502
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1633
Date Prepared: 03/30/2009 1633

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3030.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	88	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: FB-03

Lab Sample ID: 660-28462-44FB
Client Matrix: Water

Date Sampled: 03/27/2009 0930
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1616
Date Prepared: 03/30/2009 1616

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3029.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: FB-03

Lab Sample ID: 660-28462-44FB
Client Matrix: Water

Date Sampled: 03/27/2009 0930
Date Received: 03/27/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1616
Date Prepared: 03/30/2009 1616

Analysis Batch: 660-76996

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3029.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-152

Lab Sample ID: 660-28462-1
Client Matrix: Water

Date Sampled: 03/26/2009 0936
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0146
Date Prepared: 03/29/2009 0146

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2854.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-154

Lab Sample ID: 660-28462-2
Client Matrix: Water

Date Sampled: 03/26/2009 1014
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0203
Date Prepared: 03/29/2009 0203

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2855.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-153

Lab Sample ID: 660-28462-3
Client Matrix: Water

Date Sampled: 03/26/2009 1050
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0220
Date Prepared: 03/29/2009 0220

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2856.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-151

Lab Sample ID: 660-28462-4
Client Matrix: Water

Date Sampled: 03/26/2009 1128
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0237
Date Prepared: 03/29/2009 0237

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2857.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.2	I	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-242**

Lab Sample ID: 660-28462-5
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0255
Date Prepared: 03/29/2009 0255

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2858.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-243**

Lab Sample ID: 660-28462-6
Client Matrix: Water

Date Sampled: 03/26/2009 1430
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0312
Date Prepared: 03/29/2009 0312

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2859.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-244**

Lab Sample ID: 660-28462-7
Client Matrix: Water

Date Sampled: 03/26/2009 1512
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0329
Date Prepared: 03/29/2009 0329

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2860.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-175**

Lab Sample ID: 660-28462-8
Client Matrix: Water

Date Sampled: 03/26/2009 1557
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0346
Date Prepared: 03/29/2009 0346

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2861.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-133**

Lab Sample ID: 660-28462-9
Client Matrix: Water

Date Sampled: 03/26/2009 1445
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0403
Date Prepared: 03/29/2009 0403

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2862.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-29**

Lab Sample ID: 660-28462-10
Client Matrix: Water

Date Sampled: 03/26/2009 1625
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/30/2009 1433
Date Prepared: 03/30/2009 1433

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3023.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	98		2.0	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-137**

Lab Sample ID: 660-28462-11
Client Matrix: Water

Date Sampled: 03/26/2009 1650
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0438
Date Prepared: 03/29/2009 0438

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2864.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-136**

Lab Sample ID: 660-28462-12
Client Matrix: Water

Date Sampled: 03/26/2009 1600
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0455
Date Prepared: 03/29/2009 0455

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2865.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-138**

Lab Sample ID: 660-28462-13
Client Matrix: Water

Date Sampled: 03/26/2009 1615
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0512
Date Prepared: 03/29/2009 0512

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2866.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-18S**

Lab Sample ID: 660-28462-14
Client Matrix: Water

Date Sampled: 03/26/2009 1125
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0529
Date Prepared: 03/29/2009 0529

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2867.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-18D**

Lab Sample ID: 660-28462-15
Client Matrix: Water

Date Sampled: 03/26/2009 1115
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0547
Date Prepared: 03/29/2009 0547

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2868.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-195**

Lab Sample ID: 660-28462-16
Client Matrix: Water

Date Sampled: 03/26/2009 1455
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0604
Date Prepared: 03/29/2009 0604

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2869.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-193**

Lab Sample ID: 660-28462-17
Client Matrix: Water

Date Sampled: 03/26/2009 1030
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0621
Date Prepared: 03/29/2009 0621

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2870.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-194**

Lab Sample ID: 660-28462-18
Client Matrix: Water

Date Sampled: 03/26/2009 1105
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0638
Date Prepared: 03/29/2009 0638

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2871.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-228**

Lab Sample ID: 660-28462-19
Client Matrix: Water

Date Sampled: 03/26/2009 0920
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/29/2009 0655
Date Prepared: 03/29/2009 0655

Analysis Batch: 660-76984

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2872.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-30**

Lab Sample ID: 660-28462-20
Client Matrix: Water

Date Sampled: 03/26/2009 1522
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1450
Date Prepared: 03/30/2009 1450

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3024.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-58**

Lab Sample ID: 660-28462-21
Client Matrix: Water

Date Sampled: 03/26/2009 1332
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 0951
Date Prepared: 03/30/2009 0951

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2945.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-171**

Lab Sample ID: 660-28462-22
Client Matrix: Water

Date Sampled: 03/26/2009 1039
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1104
Date Prepared: 03/30/2009 1104

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2948.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-129**

Lab Sample ID: 660-28462-23
Client Matrix: Water

Date Sampled: 03/26/2009 1220
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1128
Date Prepared: 03/30/2009 1128

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2949.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	4.6		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: FB-02

Lab Sample ID: 660-28462-24FB
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1419
Date Prepared: 03/31/2009 1419

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3110.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-142**

Lab Sample ID: 660-28462-25
Client Matrix: Water

Date Sampled: 03/27/2009 1030
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1152
Date Prepared: 03/30/2009 1152

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2950.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-139**

Lab Sample ID: 660-28462-26
Client Matrix: Water

Date Sampled: 03/27/2009 0925
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1446
Date Prepared: 03/31/2009 1446

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3111.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-140**

Lab Sample ID: 660-28462-27
Client Matrix: Water

Date Sampled: 03/27/2009 0910
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1245
Date Prepared: 03/30/2009 1245

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2952.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-64

Lab Sample ID: 660-28462-28
Client Matrix: Water

Date Sampled: 03/27/2009 1150
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0416
Date Prepared: 03/31/2009 0416

Analysis Batch: 660-77065

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3026.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	51		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-52**

Lab Sample ID: 660-28462-29
Client Matrix: Water

Date Sampled: 03/27/2009 1020
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0440
Date Prepared: 03/31/2009 0440

Analysis Batch: 660-77065

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3027.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-96

Lab Sample ID: 660-28462-30
Client Matrix: Water

Date Sampled: 03/27/2009 1240
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1401
Date Prepared: 03/30/2009 1401

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2955.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-144

Lab Sample ID: 660-28462-31
Client Matrix: Water

Date Sampled: 03/27/2009 1250
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0505
Date Prepared: 03/31/2009 0505

Analysis Batch: 660-77065

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3028.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-141

Lab Sample ID: 660-28462-32
Client Matrix: Water

Date Sampled: 03/27/2009 1335
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0535
Date Prepared: 03/31/2009 0535

Analysis Batch: 660-77065

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3029.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-246**

Lab Sample ID: 660-28462-33
Client Matrix: Water

Date Sampled: 03/27/2009 0910
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0559
Date Prepared: 03/31/2009 0559

Analysis Batch: 660-77065

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3030.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-245**

Lab Sample ID: 660-28462-34
Client Matrix: Water

Date Sampled: 03/27/2009 0940
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1540
Date Prepared: 03/30/2009 1540

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2959.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-45**

Lab Sample ID: 660-28462-35
Client Matrix: Water

Date Sampled: 03/27/2009 1129
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1605
Date Prepared: 03/30/2009 1605

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2960.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	5.3		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-247**

Lab Sample ID: 660-28462-36
Client Matrix: Water

Date Sampled: 03/27/2009 0838
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1629
Date Prepared: 03/30/2009 1629

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2961.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-56**

Lab Sample ID: 660-28462-37
Client Matrix: Water

Date Sampled: 03/27/2009 1049
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1655
Date Prepared: 03/30/2009 1655

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2962.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-172**

Lab Sample ID: 660-28462-38
Client Matrix: Water

Date Sampled: 03/27/2009 1328
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 0116
Date Prepared: 03/31/2009 0116

Analysis Batch: 660-77065

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3019.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-88**

Lab Sample ID: 660-28462-39
Client Matrix: Water

Date Sampled: 03/27/2009 1122
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1507
Date Prepared: 03/30/2009 1507

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3025.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-73**

Lab Sample ID: 660-28462-40
Client Matrix: Water

Date Sampled: 03/27/2009 0927
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1524
Date Prepared: 03/30/2009 1524

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3026.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	22		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: DUP-06

Lab Sample ID: 660-28462-41FD
Client Matrix: Water

Date Sampled: 03/27/2009 0000
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1541
Date Prepared: 03/30/2009 1541

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3027.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: MW-28

Lab Sample ID: 660-28462-42
Client Matrix: Water

Date Sampled: 03/27/2009 1500
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1559
Date Prepared: 03/30/2009 1559

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3028.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	10		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: **MW-53**

Lab Sample ID: 660-28462-43
Client Matrix: Water

Date Sampled: 03/27/2009 1502
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1633
Date Prepared: 03/30/2009 1633

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3030.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28462-1
Sdg Number: 660-28462

Client Sample ID: FB-03

Lab Sample ID: 660-28462-44FB
Client Matrix: Water

Date Sampled: 03/27/2009 0930
Date Received: 03/27/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/30/2009 1616
Date Prepared: 03/30/2009 1616

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3029.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Serial Number 12240

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28462

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B_SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/26/09	0936	MW-152	G	X							4	
	1014	MW-154									4	
	1050	MW-153									4	
	1128	MW-151									4	
	1332	MW-242									4	
	1430	MW-243									4	
	1512	MW-244									4	
	1557	MW-175									4	
	1445	MW-133									4	
	1625	MW-29									4	
	1650	MW-137									4	
	1600	MW-136									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-27-09	1725			660-2846	1.8°C, 2.2°C, 1.5°C, 2.2°C	

TAL8240-660 (1207)

Page 181 of 185

R625-EDC-001214-0

Serial Number 12241

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28462

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO. #1	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM PACE	CLIENT PHONE	CLIENT FAX
CLIENT NAME EFF	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B_SIM	REQUIRED ANALYSIS: PRESERVATIVE HCl	REMARKS
								NUMBER OF CONTAINERS SUBMITTED			
3/26/09	1615	MW-13S	G	X				4			
	1125	MW-18S						4			
	1115	MW-18D						4			
	1455	MW-19S						4			
	1030	MW-19D						4			
	1105	MW-24						4			
	0920	MW-22S						4			
	1522	MW-30						4			
	1522	MW-30 MS						4			
	1522	MW-30 MSD						4			
	1332	MW-5S						4			
	1039	MW-17D						4			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Dana Kimel	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	3/27/09	1725			

8460 1645

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT:	LABORATORY REMARKS
	3/27/09	1725	YES ○ NO ○		28462	1.8°C, 2.2°C, 1.5°C, 2.2°C	

TAL8240-660 (1207)

Page 182 of 185

R625-EDC-001214-0

Serial Number 12242

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #3

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28462

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER #1	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE PAGE #1

PAGE 3 OF

STANDARD REPORT DELIVERY ●
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED: 82603	82603_SIM	HCl PRESERVATIVE	REMARKS
3/26/09	1220	MW-129	G	X				4			
3/26/09	1658	FB-02	G	X				4			
3/27/09	1030	MW-142	G	X				3			
	0925	MW-139						4			
	0910	MW-140						4			
	1150	MW-64						4			
	1020	MW-52						4			
	1240	MW-96						4			
	1250	MW-144						4			
	1335	MW-141						4			
	0910	MW-246						4			
↓	0940	MW-245						4			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Tina Skinner	3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Paul McNulty	3/27/09	1725			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-27-09	1725			28462	1.8°C, 2.2°C, 1.5°C, 2.2°C	

TAL8240-660 (1207)

Page 183 of 185

R625-EDC-001214-0

Serial Number 12247

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Page #4

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049
28462

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO. #1	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM SEE PAGE	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B_SIM	REMARKS
		PRESERVATIVE						HCl		
		NUMBER OF CONTAINERS SUBMITTED						4	4	
3/27/09	1129	MW-45	G	X				4	4	
	0838	MW-247						4	4	
	1049	MW-56						4	4	
	1328	MW-172						4	4	
	1122	MW-88						4	4	
	0927	MW-73						4	4	
	——	DUP-06						4	4	
	1500	MW-28						4	4	
	1502	MW-53						4	4	
	1502	MW-53 MS						4	4	
	1502	MW-53 MSD						4	4	
	0930	FB-03						4	4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/27/09	1725			

8600-0645

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT °	LABORATORY REMARKS °
	3-27-09	1725	YES ○ NO ○		660-28462	1.8C, 2.2C, 1.5C, 2.2C	Cu-07

TAL8240-660 (1207)

Page 184 of 185

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28503

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10080R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28503 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-112 (Annual)	660-28503-1	WATER	3/30/2009		X				
MW-48 (Annual)	660-28503-10	WATER	3/30/2009		X				
MW-67 (Annual)	660-28503-11	WATER	3/30/2009		X				
MW-86 (Annual)	660-28503-12	WATER	3/30/2009		X				
Dup-07 (Annual)	660-28503-13	WATER	3/30/2009	MW-86 (Annual)	X				
MW-39 (Annual)	660-28503-14	WATER	3/30/2009		X				
MW-38 (Annual)	660-28503-15	WATER	3/30/2009		X				
MW-147 (Annual)	660-28503-16	WATER	3/30/2009		X				
MW-150 (Annual)	660-28503-17	WATER	3/30/2009		X				
MW-145 (Annual)	660-28503-18	WATER	3/30/2009		X				
MW-149 (Annual)	660-28503-19	WATER	3/30/2009		X				
MW-220 (Annual)	660-28503-2	WATER	3/30/2009		X				
MW-143 (Annual)	660-28503-20	WATER	3/30/2009		X				
MW-148 (Annual)	660-28503-21	WATER	3/30/2009		X				
MW-146 (Annual)	660-28503-22	WATER	3/30/2009		X				
MW-114 (Annual)	660-28503-23	WATER	3/30/2009		X				
MW-51 (Annual)	660-28503-24	WATER	3/30/2009		X				
MW-26 (Annual)	660-28503-25	WATER	3/30/2009		X				
MW-107 (Annual)	660-28503-26	WATER	3/30/2009		X				
PW-84 (Annual)	660-28503-27	WATER	3/30/2009		X				
MW-94 (Annual)	660-28503-28	WATER	3/30/2009		X				
IWI-1 (Annual)	660-28503-29	WATER	3/30/2009		X				
MW-221 (Annual)	660-28503-3	WATER	3/30/2009		X				
MW-12 (Annual)	660-28503-30	WATER	3/30/2009		X				
IWI-2 (Annual)	660-28503-31	WATER	3/30/2009		X				
MW-10 (Annual)	660-28503-32	WATER	3/30/2009		X				
MW-83 (Annual)	660-28503-33	WATER	3/30/2009		X				

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
EW-UFAG-1 (Annual)	660-28503-34	WATER	3/30/2009		X				
MW-156 (Annual)	660-28503-35	WATER	3/30/2009		X				
MW-157 (Annual)	660-28503-36	WATER	3/30/2009		X				
MW-159 (Annual)	660-28503-37	WATER	3/30/2009		X				
MW-160 (Annual)	660-28503-38	WATER	3/30/2009		X				
MW-161 (Annual)	660-28503-39	WATER	3/30/2009		X				
MW-103 (Annual)	660-28503-4	WATER	3/30/2009		X				
MW-219 (Annual)	660-28503-5	WATER	3/30/2009		X				
MW-102 (Annual)	660-28503-6	WATER	3/30/2009		X				
MW-126 (Annual)	660-28503-7	WATER	3/30/2009		X				
MW-222 (Annual)	660-28503-8	WATER	3/30/2009		X				
MW-99 (Annual)	660-28503-9	WATER	3/30/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample locations MW-86 (Annual) and MW-107 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-112 (Annual) MW-220 (Annual) MW-221 (Annual) MW-103 (Annual) MW-219 (Annual) MW-102 (Annual) MW-126 (Annual) MW-222 (Annual) MW-99 (Annual) MW-48 (Annual) MW-67 (Annual) Dup-07 (Annual)	CCV %D	2,2-Dichloropropane	-21.0%
		Acetone	40.6%
		Bromomethane	-34.3%
		Carbon tetrachloride	-24.8%
		Chlorobromomethane	-29.5%
		Chloroethane	39.1%
		Chloroethane	39.1%
		Methyl tert-butyl ether	-20.3%
		Trichloroethene	-28.8%
MW-86 (Annual) MW-147 (Annual) MW-150 (Annual) MW-145 (Annual) MW-149 (Annual) MW-143 (Annual) MW-148 (Annual) MW-146 (Annual) MW-114 (Annual) MW-51 (Annual) MW-26 (Annual) MW-12 (Annual) IWI-2 (Annual) MW-10 (Annual)	CCV %D	2-Hexanone	22.7%
		4-Methyl-2-pentanone	25.5%
		Chloroethane	45.6%
		Chlorobromomethane	-23.0%
		tert-Butylbenzene	24.6%
		Trichloroethene	-21.9%
		Trichlorofluoromethane	79.8%
MW-39 (Annual) MW-38 (Annual) MW-107 (Annual) PW-84 (Annual) MW-94 (Annual)	CCV %D	2-Butanone	-20.3%
		Acetone	42.0%
		Chloroethane	42.3%
		Chlorobromomethane	-22.8%
		tert-Butylbenzene	22.1%
		Trichloroethene	-21.3%
		Trichlorofluoromethane	57.6%

Sample Locations	Initial/Continuing	Compound	Criteria
IWI-1 (Annual)	CCV %D	1,2,3-Trichlorobenzene	-25.3%
		1,2,4-Trichlorobenzene	-23.5%
		2-Butanone	-22.0%
		Acetone	45.2%
		Carbon tetrachloride	-21.2%
		Chloroethane	48.6%
		Chlorobromomethane	-32.0%
		Chloromethane	-26.3%
		Naphthalene	-24.3%
		Trichloroethene	-30.6%
		Trichlorofluoromethane	57.9%
MW-83 (Annual) EW-UFAG-1 (Annual) MW-156 (Annual) MW-157 (Annual) MW-159 (Annual) MW-160 (Annual) MW-161 (Annual)	CCV %D	Acetone	37.3%
		Bromomethane	-48.1%
		Dichlorodifluoromethane	-30.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC

analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-86 (Annual)/Dup-07 (Annual)	1,1-Dichloroethane	1.2	1.0	AC
	1,1-Dichloroethene	1.9	1.8	AC
	1,4-Dioxane (SIM)	14	12	15.3%

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Manual integration was performed for 1,4-Dioxane analysis on the internal standard 1,4-Dioxane-d8 for sample locations MW-146 (Annual) and EW-UFAG-1 (Annual). The manual integration performed by the laboratory was consistent from baseline to baseline of the primary quantitation ion; therefore the sample results were not qualified.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

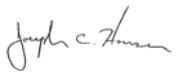
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 28, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 5, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-112**

Lab Sample ID: 660-28503-1
Client Matrix: Water

Date Sampled: 03/30/2009 1539
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1617
Date Prepared: 03/31/2009 1617

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-112

Lab Sample ID: 660-28503-1
Client Matrix: Water

Date Sampled: 03/30/2009 1539
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1617
Date Prepared: 03/31/2009 1617

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	74 - 126
Dibromofluoromethane	84	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-220

Lab Sample ID: 660-28503-2
Client Matrix: Water

Date Sampled: 03/30/2009 1410
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1704
Date Prepared: 03/31/2009 1704

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-220

Lab Sample ID: 660-28503-2
Client Matrix: Water

Date Sampled: 03/30/2009 1410
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1704
Date Prepared: 03/31/2009 1704

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-221

Lab Sample ID: 660-28503-3
Client Matrix: Water

Date Sampled: 03/30/2009 1335
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1640
Date Prepared: 03/31/2009 1640

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-221

Lab Sample ID: 660-28503-3
Client Matrix: Water

Date Sampled: 03/30/2009 1335
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1640
Date Prepared: 03/31/2009 1640

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	4.0	J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.67	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-103

Lab Sample ID: 660-28503-4
Client Matrix: Water

Date Sampled: 03/30/2009 1036
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1730
Date Prepared: 03/31/2009 1730

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3117.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-103

Lab Sample ID: 660-28503-4
Client Matrix: Water

Date Sampled: 03/30/2009 1036
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1730
Date Prepared: 03/31/2009 1730

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3117.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-219

Lab Sample ID: 660-28503-5
Client Matrix: Water

Date Sampled: 03/30/2009 1456
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1755
Date Prepared: 03/31/2009 1755

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-219

Lab Sample ID: 660-28503-5
Client Matrix: Water

Date Sampled: 03/30/2009 1456
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1755
Date Prepared: 03/31/2009 1755

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	15	J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	82	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-102

Lab Sample ID: 660-28503-6
Client Matrix: Water

Date Sampled: 03/30/2009 0955
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1820
Date Prepared: 03/31/2009 1820

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-102

Lab Sample ID: 660-28503-6
Client Matrix: Water

Date Sampled: 03/30/2009 0955
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1820
Date Prepared: 03/31/2009 1820

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-126

Lab Sample ID: 660-28503-7
Client Matrix: Water

Date Sampled: 03/30/2009 1621
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1847
Date Prepared: 03/31/2009 1847

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-126

Lab Sample ID: 660-28503-7
Client Matrix: Water

Date Sampled: 03/30/2009 1621
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1847
Date Prepared: 03/31/2009 1847

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	4.6	J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-222

Lab Sample ID: 660-28503-8
Client Matrix: Water

Date Sampled: 03/30/2009 1255
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1914
Date Prepared: 03/31/2009 1914

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-222

Lab Sample ID: 660-28503-8
Client Matrix: Water

Date Sampled: 03/30/2009 1255
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1914
Date Prepared: 03/31/2009 1914

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	2.8	J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	1.0	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-99**

Lab Sample ID: 660-28503-9
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1938
Date Prepared: 03/31/2009 1938

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-99

Lab Sample ID: 660-28503-9
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1938
Date Prepared: 03/31/2009 1938

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-48

Lab Sample ID: 660-28503-10
Client Matrix: Water

Date Sampled: 03/30/2009 1457
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2002
Date Prepared: 03/31/2009 2002

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-48

Lab Sample ID: 660-28503-10
Client Matrix: Water

Date Sampled: 03/30/2009 1457
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2002
Date Prepared: 03/31/2009 2002

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	108	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-67

Lab Sample ID: 660-28503-11
Client Matrix: Water

Date Sampled: 03/30/2009 1349
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2027
Date Prepared: 03/31/2009 2027

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	16		0.52	1.0
1,1-Dichloroethene	36		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	4.7		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-67

Lab Sample ID: 660-28503-11
Client Matrix: Water

Date Sampled: 03/30/2009 1349
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2027
Date Prepared: 03/31/2009 2027

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.80	I	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	24	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-86

Lab Sample ID: 660-28503-12
Client Matrix: Water

Date Sampled: 03/30/2009 1051
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0310
Date Prepared: 04/01/2009 0310

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3140.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	1.2		0.52	1.0
1,1-Dichloroethene	1.9		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-86

Lab Sample ID: 660-28503-12
Client Matrix: Water

Date Sampled: 03/30/2009 1051
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0310
Date Prepared: 04/01/2009 0310

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3140.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	89	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: DUP-07

Lab Sample ID: 660-28503-13
Client Matrix: Water

Date Sampled: 03/30/2009 0000
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2054
Date Prepared: 03/31/2009 2054

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	1.0		0.52	1.0
1,1-Dichloroethene	1.8		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: DUP-07

Lab Sample ID: 660-28503-13
Client Matrix: Water

Date Sampled: 03/30/2009 0000
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2054
Date Prepared: 03/31/2009 2054

Analysis Batch: 660-77159

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U J	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-39

Lab Sample ID: 660-28503-14
Client Matrix: Water

Date Sampled: 03/30/2009 1145
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 20
Date Analyzed: 04/01/2009 1934
Date Prepared: 04/01/2009 1934

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	9.2	U	9.2	20
1,1,2,2-Tetrachloroethane	3.0	U	3.0	20
1,1,2-Trichloroethane	9.4	U	9.4	20
1,1-Dichloroethane	56		10	20
1,1-Dichloroethene	180		9.0	20
1,1-Dichloropropene	6.2	U	6.2	20
1,2,3-Trichlorobenzene	15	U	15	20
1,2,3-Trichloropropane	3.6	U	3.6	20
1,2,4-Trichlorobenzene	12	U	12	20
1,2,4-Trimethylbenzene	17	U	17	20
1,2-Dibromo-3-Chloropropane	50	U	50	100
1,2-Dichlorobenzene	8.8	U	8.8	20
1,2-Dichloroethane	11	U	11	20
1,2-Dichloropropane	10	U	10	20
1,3,5-Trimethylbenzene	11	U	11	20
1,3-Dichlorobenzene	13	U	13	20
1,3-Dichloropropane	7.8	U	7.8	20
1,4-Dichlorobenzene	10	U	10	20
2,2-Dichloropropane	7.2	U	7.2	20
2-Chlorotoluene	13	U	13	20
2-Hexanone	88	U	88	200
4-Chlorotoluene	10	U	10	20
4-Isopropyltoluene	14	U	14	20
Acetone	200	U	200	400
Benzene	10	U	10	20
Bromobenzene	12	U	12	20
Bromoform	12	U	12	20
Bromomethane	50	U	50	100
Carbon disulfide	17	U	17	20
Carbon tetrachloride	8.4	U	8.4	20
Chlorobenzene	13	U	13	20
Chlorobromomethane	12	U	12	20
Chlorodibromomethane	6.8	U	6.8	20
Chloroethane	50	U	50	100
Chloroform	18	U	18	20
Chloromethane	20	U	20	80
cis-1,2-Dichloroethene	190		13	20
cis-1,3-Dichloropropene	2.8	U	2.8	20
Dibromomethane	8.2	U	8.2	20
Dichlorobromomethane	7.0	U	7.0	20
Dichlorodifluoromethane	50	U	50	100
Ethylbenzene	8.8	U	8.8	20
Ethylene Dibromide	10	U	10	20
Hexachlorobutadiene	8.0	U	8.0	20

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-39

Lab Sample ID: 660-28503-14
Client Matrix: Water

Date Sampled: 03/30/2009 1145
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 20
Date Analyzed: 04/01/2009 1934
Date Prepared: 04/01/2009 1934

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	3.8	U	3.8	20
2-Butanone (MEK)	170	U J	170	200
4-Methyl-2-pentanone (MIBK)	76	U	76	200
Methyl tert-butyl ether	8.8	U	8.8	20
1,1,1,2-Tetrachloroethane	13	U	13	20
Methylene Chloride	80	U	80	100
m-Xylene & p-Xylene	12	U	12	40
Naphthalene	50	U	50	100
n-Butylbenzene	13	U	13	20
N-Propylbenzene	12	U	12	20
o-Xylene	10	U	10	20
sec-Butylbenzene	13	U	13	20
Styrene	20	U	20	40
tert-Butylbenzene	17	U	17	20
Tetrachloroethene	220		10	20
Toluene	10	U	10	20
trans-1,2-Dichloroethene	8.8	U	8.8	20
trans-1,3-Dichloropropene	2.8	U	2.8	20
Trichloroethene	1200	J	10	20
Trichlorofluoromethane	50	U	50	100
Vinyl chloride	10	U	10	20

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	84	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-38

Lab Sample ID: 660-28503-15
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/01/2009 1959
Date Prepared: 04/01/2009 1959

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	2.3	U	2.3	5.0
1,1,2,2-Tetrachloroethane	0.75	U	0.75	5.0
1,1,2-Trichloroethane	2.4	U	2.4	5.0
1,1-Dichloroethane	6.3		2.6	5.0
1,1-Dichloroethene	6.7		2.2	5.0
1,1-Dichloropropene	1.6	U	1.6	5.0
1,2,3-Trichlorobenzene	3.8	U	3.8	5.0
1,2,3-Trichloropropane	0.90	U	0.90	5.0
1,2,4-Trichlorobenzene	2.9	U	2.9	5.0
1,2,4-Trimethylbenzene	4.3	U	4.3	5.0
1,2-Dibromo-3-Chloropropane	12	U	12	25
1,2-Dichlorobenzene	2.2	U	2.2	5.0
1,2-Dichloroethane	2.8	U	2.8	5.0
1,2-Dichloropropane	2.6	U	2.6	5.0
1,3,5-Trimethylbenzene	2.7	U	2.7	5.0
1,3-Dichlorobenzene	3.2	U	3.2	5.0
1,3-Dichloropropane	2.0	U	2.0	5.0
1,4-Dichlorobenzene	2.6	U	2.6	5.0
2,2-Dichloropropane	1.8	U	1.8	5.0
2-Chlorotoluene	3.2	U	3.2	5.0
2-Hexanone	22	U	22	50
4-Chlorotoluene	2.6	U	2.6	5.0
4-Isopropyltoluene	3.4	U	3.4	5.0
Acetone	50	U	50	100
Benzene	2.5	U	2.5	5.0
Bromobenzene	2.9	U	2.9	5.0
Bromoform	2.9	U	2.9	5.0
Bromomethane	12	U	12	25
Carbon disulfide	4.2	U	4.2	5.0
Carbon tetrachloride	2.1	U	2.1	5.0
Chlorobenzene	3.2	U	3.2	5.0
Chlorobromomethane	2.9	U	2.9	5.0
Chlorodibromomethane	1.7	U	1.7	5.0
Chloroethane	12	U	12	25
Chloroform	4.5	U	4.5	5.0
Chloromethane	5.0	U	5.0	20
cis-1,2-Dichloroethene	8.2		3.2	5.0
cis-1,3-Dichloropropene	0.70	U	0.70	5.0
Dibromomethane	2.0	U	2.0	5.0
Dichlorobromomethane	1.8	U	1.8	5.0
Dichlorodifluoromethane	12	U	12	25
Ethylbenzene	2.2	U	2.2	5.0
Ethylene Dibromide	2.5	U	2.5	5.0
Hexachlorobutadiene	2.0	U	2.0	5.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-38

Lab Sample ID: 660-28503-15
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/01/2009 1959
Date Prepared: 04/01/2009 1959

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.95	U	0.95	5.0
2-Butanone (MEK)	42	U J	42	50
4-Methyl-2-pentanone (MIBK)	19	U	19	50
Methyl tert-butyl ether	2.2	U	2.2	5.0
1,1,1,2-Tetrachloroethane	3.2	U	3.2	5.0
Methylene Chloride	20	U	20	25
m-Xylene & p-Xylene	3.0	U	3.0	10
Naphthalene	12	U	12	25
n-Butylbenzene	3.4	U	3.4	5.0
N-Propylbenzene	3.0	U	3.0	5.0
o-Xylene	2.5	U	2.5	5.0
sec-Butylbenzene	3.2	U	3.2	5.0
Styrene	4.9	U	4.9	10
tert-Butylbenzene	4.2	U	4.2	5.0
Tetrachloroethene	230		2.5	5.0
Toluene	2.6	U	2.6	5.0
trans-1,2-Dichloroethene	2.2	U	2.2	5.0
trans-1,3-Dichloropropene	0.70	U	0.70	5.0
Trichloroethene	230	J	2.5	5.0
Trichlorofluoromethane	12	U	12	25
Vinyl chloride	2.5	U	2.5	5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-147

Lab Sample ID: 660-28503-16
Client Matrix: Water

Date Sampled: 03/30/2009 1335
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0424
Date Prepared: 04/01/2009 0424

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3143.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-147

Lab Sample ID: 660-28503-16
Client Matrix: Water

Date Sampled: 03/30/2009 1335
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0424
Date Prepared: 04/01/2009 0424

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3143.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-150

Lab Sample ID: 660-28503-17
Client Matrix: Water

Date Sampled: 03/30/2009 1400
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0448
Date Prepared: 04/01/2009 0448

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3144.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-150

Lab Sample ID: 660-28503-17
Client Matrix: Water

Date Sampled: 03/30/2009 1400
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0448
Date Prepared: 04/01/2009 0448

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3144.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-145

Lab Sample ID: 660-28503-18
Client Matrix: Water

Date Sampled: 03/30/2009 0910
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0512
Date Prepared: 04/01/2009 0512

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3145.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-145

Lab Sample ID: 660-28503-18
Client Matrix: Water

Date Sampled: 03/30/2009 0910
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0512
Date Prepared: 04/01/2009 0512

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3145.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-149

Lab Sample ID: 660-28503-19
Client Matrix: Water

Date Sampled: 03/30/2009 1100
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0536
Date Prepared: 04/01/2009 0536

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3146.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-149

Lab Sample ID: 660-28503-19
Client Matrix: Water

Date Sampled: 03/30/2009 1100
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0536
Date Prepared: 04/01/2009 0536

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3146.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-143

Lab Sample ID: 660-28503-20
Client Matrix: Water

Date Sampled: 03/30/2009 0915
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0603
Date Prepared: 04/01/2009 0603

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3147.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-143

Lab Sample ID: 660-28503-20
Client Matrix: Water

Date Sampled: 03/30/2009 0915
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0603
Date Prepared: 04/01/2009 0603

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3147.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-148

Lab Sample ID: 660-28503-21
Client Matrix: Water

Date Sampled: 03/30/2009 1020
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0627
Date Prepared: 04/01/2009 0627

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3148.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-148

Lab Sample ID: 660-28503-21
Client Matrix: Water

Date Sampled: 03/30/2009 1020
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0627
Date Prepared: 04/01/2009 0627

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3148.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	91	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-146

Lab Sample ID: 660-28503-22
Client Matrix: Water

Date Sampled: 03/30/2009 1010
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0654
Date Prepared: 04/01/2009 0654

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3149.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-146

Lab Sample ID: 660-28503-22
Client Matrix: Water

Date Sampled: 03/30/2009 1010
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0654
Date Prepared: 04/01/2009 0654

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3149.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-114

Lab Sample ID: 660-28503-23
Client Matrix: Water

Date Sampled: 03/30/2009 1720
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1106
Date Prepared: 04/01/2009 1106

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3159.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-114

Lab Sample ID: 660-28503-23
Client Matrix: Water

Date Sampled: 03/30/2009 1720
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1106
Date Prepared: 04/01/2009 1106

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3159.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	89	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-51

Lab Sample ID: 660-28503-24
Client Matrix: Water

Date Sampled: 03/30/2009 1510
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1042
Date Prepared: 04/01/2009 1042

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3158.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-51

Lab Sample ID: 660-28503-24
Client Matrix: Water

Date Sampled: 03/30/2009 1510
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1042
Date Prepared: 04/01/2009 1042

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3158.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-26

Lab Sample ID: 660-28503-25
Client Matrix: Water

Date Sampled: 03/30/2009 1500
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1018
Date Prepared: 04/01/2009 1018

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3157.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-26

Lab Sample ID: 660-28503-25
Client Matrix: Water

Date Sampled: 03/30/2009 1500
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1018
Date Prepared: 04/01/2009 1018

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3157.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-107

Lab Sample ID: 660-28503-26
Client Matrix: Water

Date Sampled: 03/30/2009 1610
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1637
Date Prepared: 04/01/2009 1637

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0111.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-107

Lab Sample ID: 660-28503-26
Client Matrix: Water

Date Sampled: 03/30/2009 1610
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1637
Date Prepared: 04/01/2009 1637

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0111.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: PW-84

Lab Sample ID: 660-28503-27
Client Matrix: Water

Date Sampled: 03/30/2009 1650
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1815
Date Prepared: 04/01/2009 1815

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: PW-84

Lab Sample ID: 660-28503-27
Client Matrix: Water

Date Sampled: 03/30/2009 1650
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1815
Date Prepared: 04/01/2009 1815

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	84	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-94

Lab Sample ID: 660-28503-28
Client Matrix: Water

Date Sampled: 03/30/2009 1606
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1840
Date Prepared: 04/01/2009 1840

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-94

Lab Sample ID: 660-28503-28
Client Matrix: Water

Date Sampled: 03/30/2009 1606
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1840
Date Prepared: 04/01/2009 1840

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: IWI-1

Lab Sample ID: 660-28503-29
Client Matrix: Water

Date Sampled: 03/30/2009 1042
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/02/2009 2201
Date Prepared: 04/02/2009 2201

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0216.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	23	U	23	50
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
1,1,2-Trichloroethane	24	U	24	50
1,1-Dichloroethane	52		26	50
1,1-Dichloroethene	400		22	50
1,1-Dichloropropene	16	U	16	50
1,2,3-Trichlorobenzene	38	U J	38	50
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trichlorobenzene	29	U J	29	50
1,2,4-Trimethylbenzene	43	U	43	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
1,2-Dichlorobenzene	22	U	22	50
1,2-Dichloroethane	28	U	28	50
1,2-Dichloropropane	26	U	26	50
1,3,5-Trimethylbenzene	27	U	27	50
1,3-Dichlorobenzene	32	U	32	50
1,3-Dichloropropane	20	U	20	50
1,4-Dichlorobenzene	26	U	26	50
2,2-Dichloropropane	18	U	18	50
2-Chlorotoluene	32	U	32	50
2-Hexanone	220	U	220	500
4-Chlorotoluene	26	U	26	50
4-Isopropyltoluene	34	U	34	50
Acetone	500	U	500	1000
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Bromoform	29	U	29	50
Bromomethane	120	U	120	250
Carbon disulfide	42	U	42	50
Carbon tetrachloride	21	U J	21	50
Chlorobenzene	32	U	32	50
Chlorobromomethane	29	U J	29	50
Chlorodibromomethane	17	U	17	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U J	50	200
cis-1,2-Dichloroethene	190		32	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
Dibromomethane	20	U	20	50
Dichlorobromomethane	18	U	18	50
Dichlorodifluoromethane	120	U	120	250
Ethylbenzene	22	U	22	50
Ethylene Dibromide	25	U	25	50
Hexachlorobutadiene	20	U	20	50

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: IWI-1

Lab Sample ID: 660-28503-29
Client Matrix: Water

Date Sampled: 03/30/2009 1042
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/02/2009 2201
Date Prepared: 04/02/2009 2201

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0216.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	9.5	U	9.5	50
2-Butanone (MEK)	420	U J	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Methyl tert-butyl ether	22	U	22	50
1,1,1,2-Tetrachloroethane	32	U	32	50
Methylene Chloride	200	U	200	250
m-Xylene & p-Xylene	30	U	30	100
Naphthalene	120	U J	120	250
n-Butylbenzene	34	U	34	50
N-Propylbenzene	30	U	30	50
o-Xylene	25	U	25	50
sec-Butylbenzene	32	U	32	50
Styrene	49	U	49	100
tert-Butylbenzene	42	U	42	50
Tetrachloroethene	25	U	25	50
Toluene	26	U	26	50
trans-1,2-Dichloroethene	22	U	22	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Trichloroethene	3300	J	25	50
Trichlorofluoromethane	120	U	120	250
Vinyl chloride	25	U	25	50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	110	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-12

Lab Sample ID: 660-28503-30
Client Matrix: Water

Date Sampled: 03/30/2009 1340
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0808
Date Prepared: 04/01/2009 0808

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3152.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	4.1		0.52	1.0
1,1-Dichloroethene	3.3		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	3.8		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-12

Lab Sample ID: 660-28503-30
Client Matrix: Water

Date Sampled: 03/30/2009 1340
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0808
Date Prepared: 04/01/2009 0808

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3152.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	55		0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	83		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.64	I	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: IWI-2

Lab Sample ID: 660-28503-31
Client Matrix: Water

Date Sampled: 03/30/2009 0951
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0742
Date Prepared: 04/01/2009 0742

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3151.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	2.5		0.52	1.0
1,1-Dichloroethene	6.7		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	13		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: IWI-2

Lab Sample ID: 660-28503-31
Client Matrix: Water

Date Sampled: 03/30/2009 0951
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0742
Date Prepared: 04/01/2009 0742

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3151.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	15	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	8.5		0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-10

Lab Sample ID: 660-28503-32
Client Matrix: Water

Date Sampled: 03/30/2009 1422
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0718
Date Prepared: 04/01/2009 0718

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3150.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	19		0.52	1.0
1,1-Dichloroethene	2.2		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.9		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-10

Lab Sample ID: 660-28503-32
Client Matrix: Water

Date Sampled: 03/30/2009 1422
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0718
Date Prepared: 04/01/2009 0718

Analysis Batch: 660-77199

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3150.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	5.5		0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	1.0	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-83

Lab Sample ID: 660-28503-33
Client Matrix: Water

Date Sampled: 03/30/2009 1521
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1457
Date Prepared: 04/01/2009 1457

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-83

Lab Sample ID: 660-28503-33
Client Matrix: Water

Date Sampled: 03/30/2009 1521
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1457
Date Prepared: 04/01/2009 1457

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	88	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: EW-UFAG-1

Lab Sample ID: 660-28503-34
Client Matrix: Water

Date Sampled: 03/30/2009 1125
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/01/2009 1553
Date Prepared: 04/01/2009 1553

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	23	U	23	50
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
1,1,2-Trichloroethane	24	U	24	50
1,1-Dichloroethane	56		26	50
1,1-Dichloroethene	280		22	50
1,1-Dichloropropene	16	U	16	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trichlorobenzene	29	U	29	50
1,2,4-Trimethylbenzene	43	U	43	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
1,2-Dichlorobenzene	22	U	22	50
1,2-Dichloroethane	28	U	28	50
1,2-Dichloropropane	26	U	26	50
1,3,5-Trimethylbenzene	27	U	27	50
1,3-Dichlorobenzene	32	U	32	50
1,3-Dichloropropane	20	U	20	50
1,4-Dichlorobenzene	26	U	26	50
2,2-Dichloropropane	18	U	18	50
2-Chlorotoluene	32	U	32	50
2-Hexanone	220	U	220	500
4-Chlorotoluene	26	U	26	50
4-Isopropyltoluene	34	U	34	50
Acetone	500	U	500	1000
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Bromoform	29	U	29	50
Bromomethane	120	U J	120	250
Carbon disulfide	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chlorobromomethane	29	U	29	50
Chlorodibromomethane	17	U	17	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
cis-1,2-Dichloroethene	270		32	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
Dibromomethane	20	U	20	50
Dichlorobromomethane	18	U	18	50
Dichlorodifluoromethane	120	U J	120	250
Ethylbenzene	22	U	22	50
Ethylene Dibromide	25	U	25	50
Hexachlorobutadiene	20	U	20	50

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: EW-UFAG-1

Lab Sample ID: 660-28503-34
Client Matrix: Water

Date Sampled: 03/30/2009 1125
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/01/2009 1553
Date Prepared: 04/01/2009 1553

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	9.5	U	9.5	50
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Methyl tert-butyl ether	22	U	22	50
1,1,1,2-Tetrachloroethane	32	U	32	50
Methylene Chloride	200	U	200	250
m-Xylene & p-Xylene	30	U	30	100
Naphthalene	120	U	120	250
n-Butylbenzene	34	U	34	50
N-Propylbenzene	30	U	30	50
o-Xylene	25	U	25	50
sec-Butylbenzene	32	U	32	50
Styrene	49	U	49	100
tert-Butylbenzene	42	U	42	50
Tetrachloroethene	100		25	50
Toluene	26	U	26	50
trans-1,2-Dichloroethene	22	U	22	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Trichloroethene	2400		25	50
Trichlorofluoromethane	120	U	120	250
Vinyl chloride	25	U	25	50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	122	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-156

Lab Sample ID: 660-28503-35
Client Matrix: Water

Date Sampled: 03/30/2009 1635
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1645
Date Prepared: 04/01/2009 1645

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-156

Lab Sample ID: 660-28503-35
Client Matrix: Water

Date Sampled: 03/30/2009 1635
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1645
Date Prepared: 04/01/2009 1645

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	120	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-157

Lab Sample ID: 660-28503-36
Client Matrix: Water

Date Sampled: 03/30/2009 1618
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1702
Date Prepared: 04/01/2009 1702

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-157**

Lab Sample ID: 660-28503-36
Client Matrix: Water

Date Sampled: 03/30/2009 1618
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1702
Date Prepared: 04/01/2009 1702

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-159

Lab Sample ID: 660-28503-37
Client Matrix: Water

Date Sampled: 03/30/2009 1450
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1406
Date Prepared: 04/01/2009 1406

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-159

Lab Sample ID: 660-28503-37
Client Matrix: Water

Date Sampled: 03/30/2009 1450
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1406
Date Prepared: 04/01/2009 1406

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-160

Lab Sample ID: 660-28503-38
Client Matrix: Water

Date Sampled: 03/30/2009 1805
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1423
Date Prepared: 04/01/2009 1423

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-160

Lab Sample ID: 660-28503-38
Client Matrix: Water

Date Sampled: 03/30/2009 1805
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1423
Date Prepared: 04/01/2009 1423

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-161

Lab Sample ID: 660-28503-39
Client Matrix: Water

Date Sampled: 03/30/2009 1500
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1440
Date Prepared: 04/01/2009 1440

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-161

Lab Sample ID: 660-28503-39
Client Matrix: Water

Date Sampled: 03/30/2009 1500
Date Received: 03/31/2009 1430

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1440
Date Prepared: 04/01/2009 1440

Analysis Batch: 660-77128

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	117	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-112

Lab Sample ID: 660-28503-1
Client Matrix: Water

Date Sampled: 03/30/2009 1539
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1617
Date Prepared: 03/31/2009 1617

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-220

Lab Sample ID: 660-28503-2
Client Matrix: Water

Date Sampled: 03/30/2009 1410
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1704
Date Prepared: 03/31/2009 1704

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-221

Lab Sample ID: 660-28503-3
Client Matrix: Water

Date Sampled: 03/30/2009 1335
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1640
Date Prepared: 03/31/2009 1640

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-103

Lab Sample ID: 660-28503-4
Client Matrix: Water

Date Sampled: 03/30/2009 1036
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1730
Date Prepared: 03/31/2009 1730

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3117.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-219**

Lab Sample ID: 660-28503-5
Client Matrix: Water

Date Sampled: 03/30/2009 1456
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1755
Date Prepared: 03/31/2009 1755

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-102

Lab Sample ID: 660-28503-6
Client Matrix: Water

Date Sampled: 03/30/2009 0955
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1820
Date Prepared: 03/31/2009 1820

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-126**

Lab Sample ID: 660-28503-7
Client Matrix: Water

Date Sampled: 03/30/2009 1621
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1847
Date Prepared: 03/31/2009 1847

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-222**

Lab Sample ID: 660-28503-8
Client Matrix: Water

Date Sampled: 03/30/2009 1255
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1914
Date Prepared: 03/31/2009 1914

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-99**

Lab Sample ID: 660-28503-9
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1938
Date Prepared: 03/31/2009 1938

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-48**

Lab Sample ID: 660-28503-10
Client Matrix: Water

Date Sampled: 03/30/2009 1457
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2002
Date Prepared: 03/31/2009 2002

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	5.9		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-67

Lab Sample ID: 660-28503-11
Client Matrix: Water

Date Sampled: 03/30/2009 1349
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2027
Date Prepared: 03/31/2009 2027

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	27		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-86

Lab Sample ID: 660-28503-12
Client Matrix: Water

Date Sampled: 03/30/2009 1051
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0310
Date Prepared: 04/01/2009 0310

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3140.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	14		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: DUP-07

Lab Sample ID: 660-28503-13
Client Matrix: Water

Date Sampled: 03/30/2009 0000
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 2054
Date Prepared: 03/31/2009 2054

Analysis Batch: 660-77157

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	12		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-39**

Lab Sample ID: 660-28503-14
Client Matrix: Water

Date Sampled: 03/30/2009 1145
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 20
Date Analyzed: 04/01/2009 1934
Date Prepared: 04/01/2009 1934

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	330		20	40

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-38**

Lab Sample ID: 660-28503-15
Client Matrix: Water

Date Sampled: 03/30/2009 1115
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/01/2009 1959
Date Prepared: 04/01/2009 1959

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	5.0	U	5.0	10

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-147

Lab Sample ID: 660-28503-16
Client Matrix: Water

Date Sampled: 03/30/2009 1335
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0424
Date Prepared: 04/01/2009 0424

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3143.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-150

Lab Sample ID: 660-28503-17
Client Matrix: Water

Date Sampled: 03/30/2009 1400
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0448
Date Prepared: 04/01/2009 0448

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3144.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-145**

Lab Sample ID: 660-28503-18
Client Matrix: Water

Date Sampled: 03/30/2009 0910
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0512
Date Prepared: 04/01/2009 0512

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3145.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-149

Lab Sample ID: 660-28503-19
Client Matrix: Water

Date Sampled: 03/30/2009 1100
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0536
Date Prepared: 04/01/2009 0536

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3146.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-143**

Lab Sample ID: 660-28503-20
Client Matrix: Water

Date Sampled: 03/30/2009 0915
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0603
Date Prepared: 04/01/2009 0603

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3147.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-148

Lab Sample ID: 660-28503-21
Client Matrix: Water

Date Sampled: 03/30/2009 1020
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0627
Date Prepared: 04/01/2009 0627

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3148.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-146**

Lab Sample ID: 660-28503-22
Client Matrix: Water

Date Sampled: 03/30/2009 1010
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0654
Date Prepared: 04/01/2009 0654

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3149.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-114**

Lab Sample ID: 660-28503-23
Client Matrix: Water

Date Sampled: 03/30/2009 1720
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1106
Date Prepared: 04/01/2009 1106

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3159.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-51

Lab Sample ID: 660-28503-24
Client Matrix: Water

Date Sampled: 03/30/2009 1510
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1042
Date Prepared: 04/01/2009 1042

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3158.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-26**

Lab Sample ID: 660-28503-25
Client Matrix: Water

Date Sampled: 03/30/2009 1500
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1018
Date Prepared: 04/01/2009 1018

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3157.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-107**

Lab Sample ID: 660-28503-26
Client Matrix: Water

Date Sampled: 03/30/2009 1610
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1637
Date Prepared: 04/01/2009 1637

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0111.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **PW-84**

Lab Sample ID: 660-28503-27
Client Matrix: Water

Date Sampled: 03/30/2009 1650
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0923
Date Prepared: 04/01/2009 0923

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3155.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-94

Lab Sample ID: 660-28503-28
Client Matrix: Water

Date Sampled: 03/30/2009 1606
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1840
Date Prepared: 04/01/2009 1840

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	17		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **IWI-1**

Lab Sample ID: 660-28503-29
Client Matrix: Water

Date Sampled: 03/30/2009 1042
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/02/2009 2201
Date Prepared: 04/02/2009 2201

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0216.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	420		50	100

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-12**

Lab Sample ID: 660-28503-30
Client Matrix: Water

Date Sampled: 03/30/2009 1340
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0808
Date Prepared: 04/01/2009 0808

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3152.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	5.9		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: IWI-2

Lab Sample ID: 660-28503-31
Client Matrix: Water

Date Sampled: 03/30/2009 0951
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0742
Date Prepared: 04/01/2009 0742

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3151.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	69		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-10**

Lab Sample ID: 660-28503-32
Client Matrix: Water

Date Sampled: 03/30/2009 1422
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 0718
Date Prepared: 04/01/2009 0718

Analysis Batch: 660-77178

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC3150.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-83**

Lab Sample ID: 660-28503-33
Client Matrix: Water

Date Sampled: 03/30/2009 1521
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1457
Date Prepared: 04/01/2009 1457

Analysis Batch: 660-77142

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: EW-UFAG-1

Lab Sample ID: 660-28503-34
Client Matrix: Water

Date Sampled: 03/30/2009 1125
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/01/2009 1553
Date Prepared: 04/01/2009 1553

Analysis Batch: 660-77142

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	320		50	100

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-156**

Lab Sample ID: 660-28503-35
Client Matrix: Water

Date Sampled: 03/30/2009 1635
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1645
Date Prepared: 04/01/2009 1645

Analysis Batch: 660-77142

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: MW-157

Lab Sample ID: 660-28503-36
Client Matrix: Water

Date Sampled: 03/30/2009 1618
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1702
Date Prepared: 04/01/2009 1702

Analysis Batch: 660-77142

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-159**

Lab Sample ID: 660-28503-37
Client Matrix: Water

Date Sampled: 03/30/2009 1450
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1406
Date Prepared: 04/01/2009 1406

Analysis Batch: 660-77142

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-160**

Lab Sample ID: 660-28503-38
Client Matrix: Water

Date Sampled: 03/30/2009 1805
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1423
Date Prepared: 04/01/2009 1423

Analysis Batch: 660-77142

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28503-1
Sdg Number: 660-28503

Client Sample ID: **MW-161**

Lab Sample ID: 660-28503-39
Client Matrix: Water

Date Sampled: 03/30/2009 1500
Date Received: 03/31/2009 1430

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 1440
Date Prepared: 04/01/2009 1440

Analysis Batch: 660-77142

Instrument ID: BVMH GC/MS
Lab File ID: 1HD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Serial Number 12206

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location: 660-28503
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual Sampling	30038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 41

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30/09	1539	MW-112	G	✓				4	
	1410	MW-220						4	
	1335	MW-221						4	
	1036	MW-103						4	
	1456	~~MW-219~~ MD MW-219						4	
	0955	MW-102						4	
	1621	MW-126						4	
	1255	MW-222						4	
	1115	MW-99						4	
	1457	MW-48						4	
	1349	MW-67						4	
↓	1051	MW-96	✓	✓				4	

MATRIX TYPE

REQUIRED ANALYSIS: 8260 B, 8260 Sim

PRESERVATIVE: HCl

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1450
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430	YES ○ NO ○		660-28503	2.5°C, 2.9°C, 3.1°C	

TAL8240-660 (1207)

R625-EDC-001214-0

163 of 479

Serial Number 06425

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling #2

○ TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

○ Alternate Laboratory Name/Location
Phone: 660-28503
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLEVAST - ANNual sampling	B058055.0020.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. DR., Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B 8260B SIM	PRESERVATIVE: HCL	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30/09	1051	MW-86 MS/MSD	G	Y						4	
	~~1055~~	~~MW-86 MSD~~ MS DUP-07								4	
	1145	MW-39								4	
	1115	MW-38								4	
	1335	MW-147								4	
	1400	MW-150								3	
	0910	MW-145								4	
	1100	MW-149								4	
	0915	MW-143								4	
	1020	MW-148								3	
	1010	MW-146								4	
↓	~~1020~~	MW-114	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/31/09	1430			660-28503	2.5°C, 2.9°C, 3.1°C	°CW-07

TAL8240-660 (1207)

Page 162 of 165

R625-EDC-001214-0

64 of 479

Serial Number 06427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling #3

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:
60-28503

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual Sampling	80038055.0022.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: Arcadis	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr #100 Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B 8260B SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30/09	1510	MW-51	G	X						4	
	1500	MW-26								4	
	1610	MW-107								4	
	1650	PW-84								4	
	1606	MW-94								4	
	1042	IWI-1								4	
	1340	MW-12								4	
	0951	IWI-2								4	
	1422	MW-10								4	
	1521	MW-83								4	
	1125	EW-UFAG-1								4	
↓	1635	MW-156	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1320		3/31/09	1430
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1350		3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1920			60-28503	2.1°C, 2.9°C, 3.1°C	

TAL8240-660 (1207)

Page 163 of 165

R625-EDC-001214-0

165-61479

Serial Number 12220

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling #4

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 660-28503
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLevast - Annual Sampling	B003855.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B SIM	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/30	1618	MW-157	G	X							4	
	1450	MW-159									4	
	1805	MW-160									4	
	1500	MW-161									4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/31/09	1330		3/31/09	1430
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE) Amanda Harrison	DATE	TIME
				3/31/09	1330		3/31/09	1430

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-31-09	1430			660-28503	2.5°C, 2.9°C, 3.1°C	cw07

TAL8240-660 (1207)

660-28503

Page 164 of 165

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28537

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10088R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28537 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-163 (Annual)	660-28537-1	WATER	3/31/2009		X				
MW-15D (Annual)	660-28537-10	WATER	3/31/2009		X				
MW-46 (Annual)	660-28537-11	WATER	3/31/2009		X				
MW-93 (Annual)	660-28537-12	WATER	3/31/2009		X				
MW-15S (Annual)	660-28537-13	WATER	3/31/2009		X				
MW-20 (Annual)	660-28537-14	WATER	3/31/2009		X				
MW-135 (Annual)	660-28537-15	WATER	3/31/2009		X				
MW-186 (Annual)	660-28537-16	WATER	3/31/2009		X				
MW-169 (Annual)	660-28537-17	WATER	3/31/2009		X				
8005 15th St E (PW-102) (Annual)	660-28537-18	WATER	3/31/2009		X				
MW-240 (Annual)	660-28537-19	WATER	3/31/2009		X				
MW-166 (Annual)	660-28537-2	WATER	3/31/2009		X				
MW-170 (Annual)	660-28537-20	WATER	3/31/2009		X				
MW-120 (Annual)	660-28537-21	WATER	3/31/2009		X				
MW-117 (Annual)	660-28537-22	WATER	3/31/2009		X				
MW-119 (Annual)	660-28537-23	WATER	3/31/2009		X				
MW-183 (Annual)	660-28537-24	WATER	3/31/2009		X				
MW-184 (Annual)	660-28537-25	WATER	3/31/2009		X				
MW-189 (Annual)	660-28537-26	WATER	3/31/2009		X				
MW-168 (Annual)	660-28537-27	WATER	3/31/2009		X				
MW-188 (Annual)	660-28537-28	WATER	3/31/2009		X				
MW-118 (Annual)	660-28537-29	WATER	3/31/2009		X				
MW-162 (Annual)	660-28537-3	WATER	3/31/2009		X				
MW-167 (Annual)	660-28537-30	WATER	3/31/2009		X				
MW-185 (Annual)	660-28537-31	WATER	3/31/2009		X				
MW-191 (Annual)	660-28537-32	WATER	3/31/2009		X				

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-192 (Annual)	660-28537-33	WATER	3/31/2009		X				
MW-34 (Annual)	660-28537-34	WATER	3/31/2009		X				
MW-182 (Annual)	660-28537-35	WATER	3/31/2009		X				
Dup-08 (Annual)	660-28537-36	WATER	3/31/2009	MW-190 (Annual)	X				
MW-190 (Annual)	660-28537-37	WATER	3/31/2009		X				
FB-033109 (Annual)	660-28537-38	WATER	3/31/2009		X				
MW-251 (Annual)	660-28537-39	WATER	3/31/2009		X				
MW-62 (Annual)	660-28537-4	WATER	3/31/2009		X				
MW-31 (Annual)	660-28537-40	WATER	3/31/2009		X				
Dup-09 (Annual)	660-28537-41	WATER	3/31/2009	MW-155 (Annual)	X				
MW-155 (Annual)	660-28537-42	WATER	3/31/2009		X				
MW-125 (Annual)	660-28537-43	WATER	3/31/2009		X				
MW-176 (Annual)	660-28537-44	WATER	3/31/2009		X				
MW-177 (Annual)	660-28537-45	WATER	3/31/2009		X				
MW-115 (Annual)	660-28537-46	WATER	3/31/2009		X				
7851 15th St E (PW-47) (Annual)	660-28537-47	WATER	4/1/2009		X				
MW-50 (Annual)	660-28537-5	WATER	3/31/2009		X				
MW-92 (Annual)	660-28537-6	WATER	3/31/2009		X				
MW-165 (Annual)	660-28537-7	WATER	3/31/2009		X				
MW-97 (Annual)	660-28537-8	WATER	3/31/2009		X				
MW-164 (Annual)	660-28537-9	WATER	3/31/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample locations MW-191 (Annual), 8005 15th St E(PW-102) (Annual) and MW-251 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-93 (Annual) MW-15S (Annual) MW-20 (Annual) MW-135 (Annual) MW-186 (Annual) MW-169 (Annual) MW-240 (Annual) MW-170 (Annual) MW-189 (Annual) MW-185 (Annual) MW-191 (Annual) MW-192 (Annual) MW-34 (Annual) Dup-08 (Annual) MW-190 (Annual)	CCV %D	2-Hexanone	27.7%
		4-Methyl-2-pentanone	28.2%
		Carbon disulfide	22.5%
		Chlorobromomethane	-23.0%
		Chloroethane	49.0%
		tert-Butylbenzene	25.4%
		Trichloroethene	-24.7%
		Trichlorofluoromethane	60.1%
MW-163 (Annual) MW-166 (Annual) MW-162 (Annual) MW-62 (Annual) MW-50 (Annual) MW-92 (Annual) MW-165 (Annual) MW-97 (Annual) MW-164 (Annual) MW-15D (Annual) MW-46 (Annual)	CCV %D	2-Butanone	-20.3%
		Acetone	42.0%
		Chloroethane	42.3%
		Chlorobromomethane	-22.8%
		tert-Butylbenzene	22.1%
		Trichloroethene	-21.3%
		Trichlorofluoromethane	57.6%
8005 15th St E (PW-102) (Annual)	CCV %D	1,2,3-Trichlorobenzene	-25.3%
		1,2,4-Trichlorobenzene	-23.5%
		2-Butanone	-22.0%
		Acetone	45.2%
		Carbon tetrachloride	-21.2%
		Chloroethane	48.6%
		Chlorobromomethane	-32.0%
		Chloromethane	-26.3%

Sample Locations	Initial/Continuing	Compound	Criteria
		Naphthalene	-24.3%
		Trichloroethene	-30.6%
		Trichlorofluoromethane	57.9%
MW-120 (Annual) MW-117 (Annual) MW-119 (Annual) MW-183 (Annual) MW-184 (Annual) MW-168 (Annual) MW-188 (Annual) MW-118 (Annual) MW-167 (Annual) MW-182 (Annual) FB-033109 (Annual) MW-251 (Annual) MW-31 (Annual) Dup-09 (Annual) MW-155 (Annual) MW-125 (Annual) MW-176 (Annual) MW-177 (Annual) MW-115 (Annual) 7851 15th St E (PW-47) (Annual)	CCV %D	2-Chlorotoluene	-21.3%
		4-Chlorotoluene	-25.3%
		Acetone	37.7%
		Bromomethane	-56.0%
		Chloroethane	25.0%
		Dichlorodifluoromethane	-33.2%
		Hexachlorobutadiene	-27.8%
		Tetrachloroethene	42.3%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
8005 15th St E (PW-102) (Annual)	1,1-Dichloroethene	<LL but >10%	AC

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration (D).	Detect	No Action
	Non-detect	

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
8005 15th St E (PW-102) (Annual)	Trichloroethene

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	J
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-155 (Annual)/Dup-09 (Annual)	m-Xylene & p-Xylene	1.5 I	1.6 I	AC
	o-Xylene	0.66 I	0.74 I	AC
MW-190 (Annual)/Dup-08 (Annual)	All Compounds	ND	ND	AC

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-169 (Annual)	Acetone	540 E	2400 D	2400 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

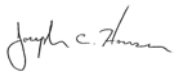
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X	X		
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 29, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 8, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-163

Lab Sample ID: 660-28537-1
Client Matrix: Water

Date Sampled: 03/31/2009 0905
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2023
Date Prepared: 04/01/2009 2023

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-163

Lab Sample ID: 660-28537-1
Client Matrix: Water

Date Sampled: 03/31/2009 0905
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2023
Date Prepared: 04/01/2009 2023

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-166

Lab Sample ID: 660-28537-2
Client Matrix: Water

Date Sampled: 03/31/2009 1030
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2050
Date Prepared: 04/01/2009 2050

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-166

Lab Sample ID: 660-28537-2
Client Matrix: Water

Date Sampled: 03/31/2009 1030
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2050
Date Prepared: 04/01/2009 2050

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	110	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-162

Lab Sample ID: 660-28537-3
Client Matrix: Water

Date Sampled: 03/31/2009 1111
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2114
Date Prepared: 04/01/2009 2114

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-162

Lab Sample ID: 660-28537-3
Client Matrix: Water

Date Sampled: 03/31/2009 1111
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2114
Date Prepared: 04/01/2009 2114

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-62

Lab Sample ID: 660-28537-4
Client Matrix: Water

Date Sampled: 03/31/2009 1515
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2141
Date Prepared: 04/01/2009 2141

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.8		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-62

Lab Sample ID: 660-28537-4
Client Matrix: Water

Date Sampled: 03/31/2009 1515
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2141
Date Prepared: 04/01/2009 2141

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-50

Lab Sample ID: 660-28537-5
Client Matrix: Water

Date Sampled: 03/31/2009 1640
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2205
Date Prepared: 04/01/2009 2205

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-50

Lab Sample ID: 660-28537-5
Client Matrix: Water

Date Sampled: 03/31/2009 1640
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2205
Date Prepared: 04/01/2009 2205

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-92

Lab Sample ID: 660-28537-6
Client Matrix: Water

Date Sampled: 03/31/2009 1415
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2231
Date Prepared: 04/01/2009 2231

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-92

Lab Sample ID: 660-28537-6
Client Matrix: Water

Date Sampled: 03/31/2009 1415
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2231
Date Prepared: 04/01/2009 2231

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-165

Lab Sample ID: 660-28537-7
Client Matrix: Water

Date Sampled: 03/31/2009 1050
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2257
Date Prepared: 04/01/2009 2257

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0126.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-165

Lab Sample ID: 660-28537-7
Client Matrix: Water

Date Sampled: 03/31/2009 1050
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2257
Date Prepared: 04/01/2009 2257

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0126.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-97

Lab Sample ID: 660-28537-8
Client Matrix: Water

Date Sampled: 03/31/2009 1000
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2322
Date Prepared: 04/01/2009 2322

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0127.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-97**

Lab Sample ID: 660-28537-8
Client Matrix: Water

Date Sampled: 03/31/2009 1000
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2322
Date Prepared: 04/01/2009 2322

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0127.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-164

Lab Sample ID: 660-28537-9
Client Matrix: Water

Date Sampled: 03/31/2009 0910
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2347
Date Prepared: 04/01/2009 2347

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-164

Lab Sample ID: 660-28537-9
Client Matrix: Water

Date Sampled: 03/31/2009 0910
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2347
Date Prepared: 04/01/2009 2347

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-15D

Lab Sample ID: 660-28537-10
Client Matrix: Water

Date Sampled: 03/31/2009 1035
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0012
Date Prepared: 04/02/2009 0012

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	4.4		0.52	1.0
1,1-Dichloroethene	0.75	I	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	4.2		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-15D

Lab Sample ID: 660-28537-10
Client Matrix: Water

Date Sampled: 03/31/2009 1035
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0012
Date Prepared: 04/02/2009 0012

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	3.4	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-46

Lab Sample ID: 660-28537-11
Client Matrix: Water

Date Sampled: 03/31/2009 1410
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0036
Date Prepared: 04/02/2009 0036

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0130.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-46

Lab Sample ID: 660-28537-11
Client Matrix: Water

Date Sampled: 03/31/2009 1410
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0036
Date Prepared: 04/02/2009 0036

Analysis Batch: 660-77276

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0130.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-93

Lab Sample ID: 660-28537-12
Client Matrix: Water

Date Sampled: 03/31/2009 1505
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1303
Date Prepared: 04/02/2009 1303

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0160.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-93

Lab Sample ID: 660-28537-12
Client Matrix: Water

Date Sampled: 03/31/2009 1505
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1303
Date Prepared: 04/02/2009 1303

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0160.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-15S

Lab Sample ID: 660-28537-13
Client Matrix: Water

Date Sampled: 03/31/2009 1110
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0710
Date Prepared: 04/02/2009 0710

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0146.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-15S**

Lab Sample ID: 660-28537-13
Client Matrix: Water

Date Sampled: 03/31/2009 1110
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0710
Date Prepared: 04/02/2009 0710

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0146.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-20

Lab Sample ID: 660-28537-14
Client Matrix: Water

Date Sampled: 03/31/2009 0942
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0734
Date Prepared: 04/02/2009 0734

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0147.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	3.4		0.52	1.0
1,1-Dichloroethene	2.9		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	1.0		0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.6		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-20

Lab Sample ID: 660-28537-14
Client Matrix: Water

Date Sampled: 03/31/2009 0942
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0734
Date Prepared: 04/02/2009 0734

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0147.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	1.2		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-135

Lab Sample ID: 660-28537-15
Client Matrix: Water

Date Sampled: 03/31/2009 1555
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0758
Date Prepared: 04/02/2009 0758

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0148.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	1.1		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	41		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-135

Lab Sample ID: 660-28537-15
Client Matrix: Water

Date Sampled: 03/31/2009 1555
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0758
Date Prepared: 04/02/2009 0758

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0148.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	3.1		0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	38	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	89	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-186

Lab Sample ID: 660-28537-16
Client Matrix: Water

Date Sampled: 03/31/2009 1620
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0823
Date Prepared: 04/02/2009 0823

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0149.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-186

Lab Sample ID: 660-28537-16
Client Matrix: Water

Date Sampled: 03/31/2009 1620
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0823
Date Prepared: 04/02/2009 0823

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0149.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-169**

Lab Sample ID: 660-28537-17
Client Matrix: Water

Date Sampled: 03/31/2009 1437
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0851
Date Prepared: 04/02/2009 0851

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0150.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-169

Lab Sample ID: 660-28537-17
Client Matrix: Water

Date Sampled: 03/31/2009 1437
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0851
Date Prepared: 04/02/2009 0851

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0150.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-169**

Lab Sample ID: 660-28537-17
Client Matrix: Water

Date Sampled: 03/31/2009 1437
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 04/07/2009 2006
Date Prepared: 04/07/2009 2006

Analysis Batch: 660-77462
Run Type: DL

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0715.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	2400	D	50	100

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **8005 15th St E (PW-102)**

Lab Sample ID: 660-28537-18
Client Matrix: Water

Date Sampled: 03/31/2009 1010
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 2019
Date Prepared: 04/02/2009 2019

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0212.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U J3 J	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **8005 15th St E (PW-102)**

Lab Sample ID: 660-28537-18
Client Matrix: Water

Date Sampled: 03/31/2009 1010
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 2019
Date Prepared: 04/02/2009 2019

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0212.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U ~~J3~~ J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-240

Lab Sample ID: 660-28537-19
Client Matrix: Water

Date Sampled: 03/31/2009 0944
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0943
Date Prepared: 04/02/2009 0943

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0152.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-240

Lab Sample ID: 660-28537-19
Client Matrix: Water

Date Sampled: 03/31/2009 0944
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0943
Date Prepared: 04/02/2009 0943

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0152.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-170

Lab Sample ID: 660-28537-20
Client Matrix: Water

Date Sampled: 03/31/2009 1130
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1007
Date Prepared: 04/02/2009 1007

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0153.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-170

Lab Sample ID: 660-28537-20
Client Matrix: Water

Date Sampled: 03/31/2009 1130
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1007
Date Prepared: 04/02/2009 1007

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0153.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-120

Lab Sample ID: 660-28537-21
Client Matrix: Water

Date Sampled: 03/31/2009 1056
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0446
Date Prepared: 04/02/2009 0446

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0133.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-120

Lab Sample ID: 660-28537-21
Client Matrix: Water

Date Sampled: 03/31/2009 1056
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0446
Date Prepared: 04/02/2009 0446

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0133.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	116	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-117

Lab Sample ID: 660-28537-22
Client Matrix: Water

Date Sampled: 03/31/2009 0930
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0229
Date Prepared: 04/02/2009 0229

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-117

Lab Sample ID: 660-28537-22
Client Matrix: Water

Date Sampled: 03/31/2009 0930
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0229
Date Prepared: 04/02/2009 0229

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-119

Lab Sample ID: 660-28537-23
Client Matrix: Water

Date Sampled: 03/31/2009 1131
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0246
Date Prepared: 04/02/2009 0246

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0126.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-119

Lab Sample ID: 660-28537-23
Client Matrix: Water

Date Sampled: 03/31/2009 1131
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0246
Date Prepared: 04/02/2009 0246

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0126.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-183

Lab Sample ID: 660-28537-24
Client Matrix: Water

Date Sampled: 03/31/2009 1400
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0429
Date Prepared: 04/02/2009 0429

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0132.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-183**

Lab Sample ID: 660-28537-24
Client Matrix: Water

Date Sampled: 03/31/2009 1400
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0429
Date Prepared: 04/02/2009 0429

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0132.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-184

Lab Sample ID: 660-28537-25
Client Matrix: Water

Date Sampled: 03/31/2009 1452
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0355
Date Prepared: 04/02/2009 0355

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0130.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-184**

Lab Sample ID: 660-28537-25
Client Matrix: Water

Date Sampled: 03/31/2009 1452
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0355
Date Prepared: 04/02/2009 0355

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0130.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	120	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-189

Lab Sample ID: 660-28537-26
Client Matrix: Water

Date Sampled: 03/31/2009 1315
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1211
Date Prepared: 04/02/2009 1211

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0158.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-189**

Lab Sample ID: 660-28537-26
Client Matrix: Water

Date Sampled: 03/31/2009 1315
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1211
Date Prepared: 04/02/2009 1211

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0158.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-168**

Lab Sample ID: 660-28537-27
Client Matrix: Water

Date Sampled: 03/31/2009 1318
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0338
Date Prepared: 04/02/2009 0338

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-168

Lab Sample ID: 660-28537-27
Client Matrix: Water

Date Sampled: 03/31/2009 1318
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0338
Date Prepared: 04/02/2009 0338

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-188

Lab Sample ID: 660-28537-28
Client Matrix: Water

Date Sampled: 03/31/2009 1340
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0212
Date Prepared: 04/02/2009 0212

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-188

Lab Sample ID: 660-28537-28
Client Matrix: Water

Date Sampled: 03/31/2009 1340
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0212
Date Prepared: 04/02/2009 0212

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	120	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-118**

Lab Sample ID: 660-28537-29
Client Matrix: Water

Date Sampled: 03/31/2009 1002
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0303
Date Prepared: 04/02/2009 0303

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0127.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-118

Lab Sample ID: 660-28537-29
Client Matrix: Water

Date Sampled: 03/31/2009 1002
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0303
Date Prepared: 04/02/2009 0303

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0127.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-167

Lab Sample ID: 660-28537-30
Client Matrix: Water

Date Sampled: 03/31/2009 1354
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0321
Date Prepared: 04/02/2009 0321

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-167

Lab Sample ID: 660-28537-30
Client Matrix: Water

Date Sampled: 03/31/2009 1354
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0321
Date Prepared: 04/02/2009 0321

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-185

Lab Sample ID: 660-28537-31
Client Matrix: Water

Date Sampled: 03/31/2009 1524
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1032
Date Prepared: 04/02/2009 1032

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0154.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-185

Lab Sample ID: 660-28537-31
Client Matrix: Water

Date Sampled: 03/31/2009 1524
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1032
Date Prepared: 04/02/2009 1032

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0154.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-191

Lab Sample ID: 660-28537-32
Client Matrix: Water

Date Sampled: 03/31/2009 1520
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0556
Date Prepared: 04/02/2009 0556

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0143.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-191

Lab Sample ID: 660-28537-32
Client Matrix: Water

Date Sampled: 03/31/2009 1520
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0556
Date Prepared: 04/02/2009 0556

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0143.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-192

Lab Sample ID: 660-28537-33
Client Matrix: Water

Date Sampled: 03/31/2009 1448
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1238
Date Prepared: 04/02/2009 1238

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0159.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	34	J	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-192

Lab Sample ID: 660-28537-33
Client Matrix: Water

Date Sampled: 03/31/2009 1448
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1238
Date Prepared: 04/02/2009 1238

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0159.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-34

Lab Sample ID: 660-28537-34
Client Matrix: Water

Date Sampled: 03/31/2009 1656
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1122
Date Prepared: 04/02/2009 1122

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0156.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-34**

Lab Sample ID: 660-28537-34
Client Matrix: Water

Date Sampled: 03/31/2009 1656
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1122
Date Prepared: 04/02/2009 1122

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0156.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-182

Lab Sample ID: 660-28537-35
Client Matrix: Water

Date Sampled: 03/31/2009 1521
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0412
Date Prepared: 04/02/2009 0412

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0131.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-182

Lab Sample ID: 660-28537-35
Client Matrix: Water

Date Sampled: 03/31/2009 1521
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0412
Date Prepared: 04/02/2009 0412

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0131.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	91	74 - 126
Dibromofluoromethane	117	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: Dup-08

Lab Sample ID: 660-28537-36
Client Matrix: Water

Date Sampled: 03/31/2009 0000
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1056
Date Prepared: 04/02/2009 1056

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0155.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: Dup-08

Lab Sample ID: 660-28537-36
Client Matrix: Water

Date Sampled: 03/31/2009 0000
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1056
Date Prepared: 04/02/2009 1056

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0155.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-190

Lab Sample ID: 660-28537-37
Client Matrix: Water

Date Sampled: 03/31/2009 1652
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1146
Date Prepared: 04/02/2009 1146

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0157.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-190

Lab Sample ID: 660-28537-37
Client Matrix: Water

Date Sampled: 03/31/2009 1652
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1146
Date Prepared: 04/02/2009 1146

Analysis Batch: 660-77275

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0157.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: FB-033109

Lab Sample ID: 660-28537-38
Client Matrix: Water

Date Sampled: 03/31/2009 1624
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2319
Date Prepared: 04/01/2009 2319

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: FB-033109

Lab Sample ID: 660-28537-38
Client Matrix: Water

Date Sampled: 03/31/2009 1624
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2319
Date Prepared: 04/01/2009 2319

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-251

Lab Sample ID: 660-28537-39
Client Matrix: Water

Date Sampled: 03/31/2009 1403
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2354
Date Prepared: 04/01/2009 2354

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-251

Lab Sample ID: 660-28537-39
Client Matrix: Water

Date Sampled: 03/31/2009 1403
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2354
Date Prepared: 04/01/2009 2354

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-31

Lab Sample ID: 660-28537-40
Client Matrix: Water

Date Sampled: 03/31/2009 1735
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0103
Date Prepared: 04/02/2009 0103

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-31

Lab Sample ID: 660-28537-40
Client Matrix: Water

Date Sampled: 03/31/2009 1735
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0103
Date Prepared: 04/02/2009 0103

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.74	+ J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: Dup-9

Lab Sample ID: 660-28537-41
Client Matrix: Water

Date Sampled: 03/31/2009 0000
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0045
Date Prepared: 04/02/2009 0045

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: Dup-9

Lab Sample ID: 660-28537-41
Client Matrix: Water

Date Sampled: 03/31/2009 0000
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0045
Date Prepared: 04/02/2009 0045

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	1.6	I	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.74	I	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-155**

Lab Sample ID: 660-28537-42
Client Matrix: Water

Date Sampled: 03/31/2009 1534
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0120
Date Prepared: 04/02/2009 0120

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-155

Lab Sample ID: 660-28537-42
Client Matrix: Water

Date Sampled: 03/31/2009 1534
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0120
Date Prepared: 04/02/2009 0120

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	1.5	I	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.66	I	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-125

Lab Sample ID: 660-28537-43
Client Matrix: Water

Date Sampled: 03/31/2009 0927
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0011
Date Prepared: 04/02/2009 0011

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0117.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-125

Lab Sample ID: 660-28537-43
Client Matrix: Water

Date Sampled: 03/31/2009 0927
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0011
Date Prepared: 04/02/2009 0011

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0117.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	93	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-176

Lab Sample ID: 660-28537-44
Client Matrix: Water

Date Sampled: 03/31/2009 1052
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0155
Date Prepared: 04/02/2009 0155

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-176

Lab Sample ID: 660-28537-44
Client Matrix: Water

Date Sampled: 03/31/2009 1052
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0155
Date Prepared: 04/02/2009 0155

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-177**

Lab Sample ID: 660-28537-45
Client Matrix: Water

Date Sampled: 03/31/2009 1121
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0028
Date Prepared: 04/02/2009 0028

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-177

Lab Sample ID: 660-28537-45
Client Matrix: Water

Date Sampled: 03/31/2009 1121
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0028
Date Prepared: 04/02/2009 0028

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-115

Lab Sample ID: 660-28537-46
Client Matrix: Water

Date Sampled: 03/31/2009 0932
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0138
Date Prepared: 04/02/2009 0138

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-115

Lab Sample ID: 660-28537-46
Client Matrix: Water

Date Sampled: 03/31/2009 0932
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0138
Date Prepared: 04/02/2009 0138

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: 7851 15th St E (PW-47)

Lab Sample ID: 660-28537-47
Client Matrix: Water

Date Sampled: 04/01/2009 0730
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2337
Date Prepared: 04/01/2009 2337

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U J	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U J	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	31	J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: 7851 15th St E (PW-47)

Lab Sample ID: 660-28537-47
Client Matrix: Water

Date Sampled: 04/01/2009 0730
Date Received: 04/01/2009 1415

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2337
Date Prepared: 04/01/2009 2337

Analysis Batch: 660-77170

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	117	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-163

Lab Sample ID: 660-28537-1
Client Matrix: Water

Date Sampled: 03/31/2009 0905
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2023
Date Prepared: 04/01/2009 2023

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-166

Lab Sample ID: 660-28537-2
Client Matrix: Water

Date Sampled: 03/31/2009 1030
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2050
Date Prepared: 04/01/2009 2050

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-162

Lab Sample ID: 660-28537-3
Client Matrix: Water

Date Sampled: 03/31/2009 1111
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2114
Date Prepared: 04/01/2009 2114

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-62

Lab Sample ID: 660-28537-4
Client Matrix: Water

Date Sampled: 03/31/2009 1515
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2141
Date Prepared: 04/01/2009 2141

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	10		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-50

Lab Sample ID: 660-28537-5
Client Matrix: Water

Date Sampled: 03/31/2009 1640
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2205
Date Prepared: 04/01/2009 2205

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-92**

Lab Sample ID: 660-28537-6
Client Matrix: Water

Date Sampled: 03/31/2009 1415
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2231
Date Prepared: 04/01/2009 2231

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-165

Lab Sample ID: 660-28537-7
Client Matrix: Water

Date Sampled: 03/31/2009 1050
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2257
Date Prepared: 04/01/2009 2257

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0126.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-97

Lab Sample ID: 660-28537-8
Client Matrix: Water

Date Sampled: 03/31/2009 1000
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2322
Date Prepared: 04/01/2009 2322

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0127.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-164

Lab Sample ID: 660-28537-9
Client Matrix: Water

Date Sampled: 03/31/2009 0910
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2347
Date Prepared: 04/01/2009 2347

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-15D**

Lab Sample ID: 660-28537-10
Client Matrix: Water

Date Sampled: 03/31/2009 1035
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0012
Date Prepared: 04/02/2009 0012

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	5.5		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-46**

Lab Sample ID: 660-28537-11
Client Matrix: Water

Date Sampled: 03/31/2009 1410
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0036
Date Prepared: 04/02/2009 0036

Analysis Batch: 660-77201

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0130.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-93

Lab Sample ID: 660-28537-12
Client Matrix: Water

Date Sampled: 03/31/2009 1505
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1303
Date Prepared: 04/02/2009 1303

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0160.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-15S

Lab Sample ID: 660-28537-13
Client Matrix: Water

Date Sampled: 03/31/2009 1110
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0710
Date Prepared: 04/02/2009 0710

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0146.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-20

Lab Sample ID: 660-28537-14
Client Matrix: Water

Date Sampled: 03/31/2009 0942
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0734
Date Prepared: 04/02/2009 0734

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0147.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	6.4		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-135

Lab Sample ID: 660-28537-15
Client Matrix: Water

Date Sampled: 03/31/2009 1555
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0758
Date Prepared: 04/02/2009 0758

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0148.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	23		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-186

Lab Sample ID: 660-28537-16
Client Matrix: Water

Date Sampled: 03/31/2009 1620
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0823
Date Prepared: 04/02/2009 0823

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0149.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-169

Lab Sample ID: 660-28537-17
Client Matrix: Water

Date Sampled: 03/31/2009 1437
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0851
Date Prepared: 04/02/2009 0851

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0150.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **8005 15th St E (PW-102)**

Lab Sample ID: 660-28537-18
Client Matrix: Water

Date Sampled: 03/31/2009 1010
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 2019
Date Prepared: 04/02/2009 2019

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0212.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-240

Lab Sample ID: 660-28537-19
Client Matrix: Water

Date Sampled: 03/31/2009 0944
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0943
Date Prepared: 04/02/2009 0943

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0152.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-170

Lab Sample ID: 660-28537-20
Client Matrix: Water

Date Sampled: 03/31/2009 1130
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1007
Date Prepared: 04/02/2009 1007

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0153.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-120

Lab Sample ID: 660-28537-21
Client Matrix: Water

Date Sampled: 03/31/2009 1056
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0446
Date Prepared: 04/02/2009 0446

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0133.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-117

Lab Sample ID: 660-28537-22
Client Matrix: Water

Date Sampled: 03/31/2009 0930
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0229
Date Prepared: 04/02/2009 0229

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0125.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-119**

Lab Sample ID: 660-28537-23
Client Matrix: Water

Date Sampled: 03/31/2009 1131
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0246
Date Prepared: 04/02/2009 0246

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0126.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-183**

Lab Sample ID: 660-28537-24
Client Matrix: Water

Date Sampled: 03/31/2009 1400
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0429
Date Prepared: 04/02/2009 0429

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0132.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-184

Lab Sample ID: 660-28537-25
Client Matrix: Water

Date Sampled: 03/31/2009 1452
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0355
Date Prepared: 04/02/2009 0355

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0130.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-189**

Lab Sample ID: 660-28537-26
Client Matrix: Water

Date Sampled: 03/31/2009 1315
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1211
Date Prepared: 04/02/2009 1211

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0158.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-168**

Lab Sample ID: 660-28537-27
Client Matrix: Water

Date Sampled: 03/31/2009 1318
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0338
Date Prepared: 04/02/2009 0338

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0129.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-188**

Lab Sample ID: 660-28537-28
Client Matrix: Water

Date Sampled: 03/31/2009 1340
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0212
Date Prepared: 04/02/2009 0212

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0124.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-118**

Lab Sample ID: 660-28537-29
Client Matrix: Water

Date Sampled: 03/31/2009 1002
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0303
Date Prepared: 04/02/2009 0303

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0127.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-167**

Lab Sample ID: 660-28537-30
Client Matrix: Water

Date Sampled: 03/31/2009 1354
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0321
Date Prepared: 04/02/2009 0321

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0128.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-185**

Lab Sample ID: 660-28537-31
Client Matrix: Water

Date Sampled: 03/31/2009 1524
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1032
Date Prepared: 04/02/2009 1032

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0154.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-191**

Lab Sample ID: 660-28537-32
Client Matrix: Water

Date Sampled: 03/31/2009 1520
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0556
Date Prepared: 04/02/2009 0556

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0143.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-192

Lab Sample ID: 660-28537-33
Client Matrix: Water

Date Sampled: 03/31/2009 1448
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1238
Date Prepared: 04/02/2009 1238

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0159.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-34**

Lab Sample ID: 660-28537-34
Client Matrix: Water

Date Sampled: 03/31/2009 1656
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1122
Date Prepared: 04/02/2009 1122

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0156.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-182**

Lab Sample ID: 660-28537-35
Client Matrix: Water

Date Sampled: 03/31/2009 1521
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0412
Date Prepared: 04/02/2009 0412

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0131.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **Dup-08**

Lab Sample ID: 660-28537-36
Client Matrix: Water

Date Sampled: 03/31/2009 0000
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 1056
Date Prepared: 04/02/2009 1056

Analysis Batch: 660-77272

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0155.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-190**

Lab Sample ID: 660-28537-37
Client Matrix: Water

Date Sampled: 03/31/2009 1652
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 2225
Date Prepared: 04/02/2009 2225

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0217.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: FB-033109

Lab Sample ID: 660-28537-38
Client Matrix: Water

Date Sampled: 03/31/2009 1624
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2319
Date Prepared: 04/01/2009 2319

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0114.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-251**

Lab Sample ID: 660-28537-39
Client Matrix: Water

Date Sampled: 03/31/2009 1403
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2354
Date Prepared: 04/01/2009 2354

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0116.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **MW-31**

Lab Sample ID: 660-28537-40
Client Matrix: Water

Date Sampled: 03/31/2009 1735
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0103
Date Prepared: 04/02/2009 0103

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0120.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: **Dup-9**

Lab Sample ID: 660-28537-41
Client Matrix: Water

Date Sampled: 03/31/2009 0000
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0045
Date Prepared: 04/02/2009 0045

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0119.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-155

Lab Sample ID: 660-28537-42
Client Matrix: Water

Date Sampled: 03/31/2009 1534
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0120
Date Prepared: 04/02/2009 0120

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0121.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-125

Lab Sample ID: 660-28537-43
Client Matrix: Water

Date Sampled: 03/31/2009 0927
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0011
Date Prepared: 04/02/2009 0011

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0117.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-176

Lab Sample ID: 660-28537-44
Client Matrix: Water

Date Sampled: 03/31/2009 1052
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0155
Date Prepared: 04/02/2009 0155

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0123.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-177

Lab Sample ID: 660-28537-45
Client Matrix: Water

Date Sampled: 03/31/2009 1121
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0028
Date Prepared: 04/02/2009 0028

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0118.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: MW-115

Lab Sample ID: 660-28537-46
Client Matrix: Water

Date Sampled: 03/31/2009 0932
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/02/2009 0138
Date Prepared: 04/02/2009 0138

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0122.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28537-1
Sdg Number: 660-28537

Client Sample ID: 7851 15th St E (PW-47)

Lab Sample ID: 660-28537-47
Client Matrix: Water

Date Sampled: 04/01/2009 0730
Date Received: 04/01/2009 1415

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/01/2009 2337
Date Prepared: 04/01/2009 2337

Analysis Batch: 660-77168

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0115.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Serial Number 12253

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055-0020-00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	Kathy.Thalman@Arcadis-us.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 5

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	8260B SIM	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	0905	MW-163	G	X							4	
	1030	MW-166									4	
	1111	MW-162									4	
	1515	MW-62									4	
	1640 ~~1410~~	MW-50									4	
	1415	MW-92									4	
	1050	MW-165									4	
	1000	MW-97									4	
	0910	MW-164									4	
	1035	MW-15D									4	
	1410	MW-46									4	
V	1505	MW-93	V	V							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4-1-09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-1-09	1300			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ○ NO ○		660-28537	2.1°C, 2.3°C, 2.0°C	CW-07

TAL8240-660 (1207)

R625-EDC-001214-0

Page 185 of 190

Serial Number 12265

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 5

STANDARD REPORT DELIVERY (X)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	8260B 8260 Sim	HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	1110	MW-155	G	X						4	
	0942	MW-20								4	
	1555	MW-135								4	
	1620	MW-186								4	
	1437	MW-169								4	
	1010	8005 15th St E (PW-102)								4	
	0944	MW-240								4	
	1130	MW-70								4	
	1056	MW-120								4	
	0930	MW-117								4	
	1131	MW-119								4	
	1400	MW-183								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4.1.09	1302			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ( ) NO ( )		660-		

TAL8240-660 (1207)

Page 186 of 190
R625-EDC-001214-0

Serial Number 12252

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast · Annual	B0038055.0026.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	

CLIENT ADDRESS: 3350 Buschwood Pk. Dr. #100, Tampa, FL 33618
COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 3 OF 5

STANDARD REPORT DELIVERY ⊗
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B 8260 Sim	REQUIRED ANALYSIS: HCl PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	1452	MW-184	G	X						4	
	1315	MW-189								4	
	1318	MW-168								4	
	1340	MW-188								4	
	1002	MW-118								4	
	1354	MW-167								4	
	1524	MW-185								4	
	1520	MW-191								4	
	1520	MW-191 MS								4	
	1520	MW-191 MSD								4	
	1448	MW-192								4	
↓	1656	MW-34	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4.1.09	1300			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ○ NO ○		660		

TAL8240-660 (1207)

Page 187 of 190
R625-EDC-001214-0

Serial Number 12255

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055-0020-00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT...)

REQUIRED ANALYSIS: 8260B | 8260 SIM | HCL PRESERVATIVE

PAGE 4 OF 5

STANDARD REPORT DELIVERY (X)
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMP	AQ	SOL	AIR	NAQ	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/31/09	1521	MW-182	G	X				4	
	—	DUP-08						4	
	1652	MW-190						4	
	1624	FB-033109						4	
	1403	MW-25I						4	
	1735	MW-31						4	
	1403	MW-25I MS						4	
	1403	MW-25I MSD						4	
	—	DUP-9						4	
	1534	MW-155						4	
	0923	MW-125						4	
	1052	MW-176						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4.1.09	1302			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO:	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415	YES ( ) NO ( )		190-7714		

TAL8240-660 (1207)

Serial Number 12257

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	60038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 5 OF 5

STANDARD REPORT DELIVERY ⊘

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	8260B Sim	NUMBER OF CONTAINERS SUBMITTED: HCL PRESERVATIVE	REMARKS
3/31/09	1121	MW-177	G	X						4	
↓	0932	MW-115	↓	↓						4	
4/1/09	0730	7851 15th St. E (PW-47	G	X						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/1/09	1300		4.1.09	1415
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-1-09	1300			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-1-09	1415			660-		

TAL8240-660 (1207)

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28569

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10095R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28569 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-65 (Annual)	660-28569-1	WATER	4/1/2009		X				
MW-231 (Annual)	660-28569-10	WATER	4/1/2009		X				
MW-17D (Annual)	660-28569-11	WATER	4/1/2009		X				
MW-124 (Annual)	660-28569-12	WATER	4/1/2009		X				
MW-66 (Annual)	660-28569-13	WATER	4/1/2009		X				
MW-16S (Annual)	660-28569-14	WATER	4/1/2009		X				
MW-16D (Annual)	660-28569-15	WATER	4/1/2009		X				
PW-57 (Annual)	660-28569-16	WATER	4/1/2009		X				
Dup-10 (Annual)	660-28569-17	WATER	4/1/2009	MW-16D (Annual)	X				
MW-89 (Annual)	660-28569-18	WATER	4/1/2009		X				
MW-113 (Annual)	660-28569-19	WATER	4/1/2009		X				
MW-55 (Annual)	660-28569-2	WATER	4/1/2009		X				
Dup-12 (Annual)	660-28569-20	WATER	4/1/2009	MW-60 (Annual)	X				
MW-60 (Annual)	660-28569-21	WATER	4/1/2009		X				
FB040109 (Annual)	660-28569-22	WATER	4/1/2009		X				
TW-84B (Annual)	660-28569-23	WATER	4/1/2009		X				
MW-230 (Annual)	660-28569-24	WATER	4/1/2009		X				
MW-179 (Annual)	660-28569-25	WATER	4/1/2009		X				
MW-181 (Annual)	660-28569-26	WATER	4/1/2009		X				
MW-178 (Annual)	660-28569-27	WATER	4/1/2009		X				
MW-180 (Annual)	660-28569-28	WATER	4/1/2009		X				
MW-116 (Annual)	660-28569-29	WATER	4/1/2009		X				
MW-106 (Annual)	660-28569-3	WATER	4/1/2009		X				
MW-131 (Annual)	660-28569-30	WATER	4/1/2009		X				
MW-90 (Annual)	660-28569-31	WATER	4/1/2009		X				
MW-49 (Annual)	660-28569-32	WATER	4/1/2009		X				

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-24 (Annual)	660-28569-33	WATER	4/1/2009		X				
Dup-11 (Annual)	660-28569-34	WATER	4/1/2009	MW-55 (Annual)	X				
MW-101 (Annual)	660-28569-35	WATER	4/1/2009		X				
MW-209 (Annual)	660-28569-36	WATER	4/1/2009		X				
MW-208 (Annual)	660-28569-37	WATER	4/1/2009		X				
MW-187 (Annual)	660-28569-38	WATER	4/1/2009		X				
MW-210 (Annual)	660-28569-39	WATER	4/1/2009		X				
TW-84A (Annual)	660-28569-4	WATER	4/1/2009		X				
MW-211 (Annual)	660-28569-40	WATER	4/1/2009		X				
MW-212 (Annual)	660-28569-41	WATER	4/1/2009		X				
MW-232 (Annual)	660-28569-5	WATER	4/1/2009		X				
MW-132 (Annual)	660-28569-6	WATER	4/1/2009		X				
MW-229 (Annual)	660-28569-7	WATER	4/1/2009		X				
MW-79 (Annual)	660-28569-8	WATER	4/1/2009		X				
MW-17S (Annual)	660-28569-9	WATER	4/1/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample locations MW-17D (Annual), MW-181 (Annual), MW-180 (Annual), MW-90 (Annual) and MW-24 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-65 (Annual) MW-55 (Annual) MW-106 (Annual) TW-84A (Annual) MW-232 (Annual) MW-132 (Annual) MW-229 (Annual) MW-79 (Annual) MW-17S (Annual) MW-231 (Annual)	CCV %D	1,2,3-Trichlorobenzene	-25.3%
		1,2,4-Trichlorobenzene	-23.5%
		2-Butanone	-22.0%
		Acetone	45.2%
		Carbon tetrachloride	-21.2%
		Chloroethane	48.6%
		Chlorobromomethane	-32.0%
		Chloromethane	-26.3%
		Naphthalene	-24.3%
		Trichloroethene	-30.6%
		Trichlorofluoromethane	57.9%
MW-131 (Annual) MW-90 (Annual) MW-49 (Annual) MW-24 (Annual) Dup-11 (Annual) MW-101 (Annual) MW-209 (Annual) MW-208 (Annual) MW-187 (Annual) MW-210 (Annual) MW-211 (Annual) MW-212 (Annual)	CCV %D	Bromomethane	-22.2%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
MW-90 (Annual)	Toluene	>UL	AC

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration (D).	Detect	No Action
	Non-detect	

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-16D (Annual)/Dup-10 (Annual)	1,4-Dioxane (SIM)	2.7	4.0	AC
MW-55 (Annual)/Dup-11 (Annual)	1,1-Dichloroethane	ND(0.52)	0.87 I	AC
	Acetone	ND(9.9)	81	NC
	1,4-Dioxane (SIM)	ND(1.0)	5.2	AC
MW-60 (Annual)/Dup-12 (Annual)	All Compounds	ND	ND	AC

AC Acceptable
NC Not compliant
ND Not detected

The compound Acetone associated with sample locations MW-55 (Annual) and Dup-11 (Annual) exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Manual integration was performed for 1,4-Dioxane analysis on the internal standard 1,4-Dioxane-d8 for sample location MW-17S (Annual). The manual integration performed by the laboratory was consistent from baseline to baseline of the primary quantitation ion; therefore the sample results were not qualified.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

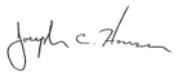
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X	X		
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X	X		
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 30, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 8, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-65

Lab Sample ID: 660-28569-1
Client Matrix: Water

Date Sampled: 04/01/2009 1147
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0007
Date Prepared: 04/03/2009 0007

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0221.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.64	I	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	110	J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-65

Lab Sample ID: 660-28569-1
Client Matrix: Water

Date Sampled: 04/01/2009 1147
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0007
Date Prepared: 04/03/2009 0007

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0221.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-55**

Lab Sample ID: 660-28569-2
Client Matrix: Water

Date Sampled: 04/01/2009 1303
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0033
Date Prepared: 04/03/2009 0033

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0222.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-55

Lab Sample ID: 660-28569-2
Client Matrix: Water

Date Sampled: 04/01/2009 1303
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0033
Date Prepared: 04/03/2009 0033

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0222.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	104	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-106

Lab Sample ID: 660-28569-3
Client Matrix: Water

Date Sampled: 04/01/2009 1059
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0100
Date Prepared: 04/03/2009 0100

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0223.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-106

Lab Sample ID: 660-28569-3
Client Matrix: Water

Date Sampled: 04/01/2009 1059
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0100
Date Prepared: 04/03/2009 0100

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0223.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	83	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: TW-84A

Lab Sample ID: 660-28569-4
Client Matrix: Water

Date Sampled: 04/01/2009 1525
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0124
Date Prepared: 04/03/2009 0124

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0224.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: TW-84A

Lab Sample ID: 660-28569-4
Client Matrix: Water

Date Sampled: 04/01/2009 1525
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0124
Date Prepared: 04/03/2009 0124

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0224.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-232**

Lab Sample ID: 660-28569-5
Client Matrix: Water

Date Sampled: 04/01/2009 1552
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0148
Date Prepared: 04/03/2009 0148

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0225.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-232

Lab Sample ID: 660-28569-5
Client Matrix: Water

Date Sampled: 04/01/2009 1552
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0148
Date Prepared: 04/03/2009 0148

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0225.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	111	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	106	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-132

Lab Sample ID: 660-28569-6
Client Matrix: Water

Date Sampled: 04/01/2009 0936
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0214
Date Prepared: 04/03/2009 0214

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0226.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.84	I	0.52	1.0
1,1-Dichloroethene	3.3		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-132

Lab Sample ID: 660-28569-6
Client Matrix: Water

Date Sampled: 04/01/2009 0936
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0214
Date Prepared: 04/03/2009 0214

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0226.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	5.9	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-229

Lab Sample ID: 660-28569-7
Client Matrix: Water

Date Sampled: 04/01/2009 1338
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0239
Date Prepared: 04/03/2009 0239

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0227.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-229

Lab Sample ID: 660-28569-7
Client Matrix: Water

Date Sampled: 04/01/2009 1338
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0239
Date Prepared: 04/03/2009 0239

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0227.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	85	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-79

Lab Sample ID: 660-28569-8
Client Matrix: Water

Date Sampled: 04/01/2009 0902
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0303
Date Prepared: 04/03/2009 0303

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0228.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	1.6		0.52	1.0
1,1-Dichloroethene	3.3		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U J	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U J	1.0	4.0
cis-1,2-Dichloroethene	93		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-79

Lab Sample ID: 660-28569-8
Client Matrix: Water

Date Sampled: 04/01/2009 0902
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0303
Date Prepared: 04/03/2009 0303

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0228.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	3.2		0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	35	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	88	70 - 130
Toluene-d8 (Surr)	105	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-17S

Lab Sample ID: 660-28569-9
Client Matrix: Water

Date Sampled: 04/01/2009 1015
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0327
Date Prepared: 04/03/2009 0327

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0229.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-17S

Lab Sample ID: 660-28569-9
Client Matrix: Water

Date Sampled: 04/01/2009 1015
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0327
Date Prepared: 04/03/2009 0327

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0229.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	87	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-231

Lab Sample ID: 660-28569-10
Client Matrix: Water

Date Sampled: 04/01/2009 1455
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0354
Date Prepared: 04/03/2009 0354

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0230.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-231

Lab Sample ID: 660-28569-10
Client Matrix: Water

Date Sampled: 04/01/2009 1455
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0354
Date Prepared: 04/03/2009 0354

Analysis Batch: 660-77329

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0230.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U J	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	86	70 - 130
Toluene-d8 (Surr)	107	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-17D

Lab Sample ID: 660-28569-11
Client Matrix: Water

Date Sampled: 04/01/2009 1055
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1611
Date Prepared: 04/03/2009 1611

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-17D

Lab Sample ID: 660-28569-11
Client Matrix: Water

Date Sampled: 04/01/2009 1055
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1611
Date Prepared: 04/03/2009 1611

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	97	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-124

Lab Sample ID: 660-28569-12
Client Matrix: Water

Date Sampled: 04/01/2009 1012
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1718
Date Prepared: 04/03/2009 1718

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-124

Lab Sample ID: 660-28569-12
Client Matrix: Water

Date Sampled: 04/01/2009 1012
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1718
Date Prepared: 04/03/2009 1718

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	95	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-66

Lab Sample ID: 660-28569-13
Client Matrix: Water

Date Sampled: 04/01/2009 1005
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1740
Date Prepared: 04/03/2009 1740

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-66

Lab Sample ID: 660-28569-13
Client Matrix: Water

Date Sampled: 04/01/2009 1005
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1740
Date Prepared: 04/03/2009 1740

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-16S**

Lab Sample ID: 660-28569-14
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1802
Date Prepared: 04/03/2009 1802

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-16S

Lab Sample ID: 660-28569-14
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1802
Date Prepared: 04/03/2009 1802

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-16D**

Lab Sample ID: 660-28569-15
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1826
Date Prepared: 04/03/2009 1826

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-16D

Lab Sample ID: 660-28569-15
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1826
Date Prepared: 04/03/2009 1826

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	97	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: PW-57

Lab Sample ID: 660-28569-16
Client Matrix: Water

Date Sampled: 04/01/2009 1225
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1850
Date Prepared: 04/03/2009 1850

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: PW-57

Lab Sample ID: 660-28569-16
Client Matrix: Water

Date Sampled: 04/01/2009 1225
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1850
Date Prepared: 04/03/2009 1850

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	94	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: DUP-10

Lab Sample ID: 660-28569-17
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1912
Date Prepared: 04/03/2009 1912

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: DUP-10

Lab Sample ID: 660-28569-17
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1912
Date Prepared: 04/03/2009 1912

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	102	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-89

Lab Sample ID: 660-28569-18
Client Matrix: Water

Date Sampled: 04/01/2009 1050
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1936
Date Prepared: 04/03/2009 1936

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0325.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-89

Lab Sample ID: 660-28569-18
Client Matrix: Water

Date Sampled: 04/01/2009 1050
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1936
Date Prepared: 04/03/2009 1936

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0325.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-113

Lab Sample ID: 660-28569-19
Client Matrix: Water

Date Sampled: 04/01/2009 1130
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2002
Date Prepared: 04/03/2009 2002

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0326.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-113

Lab Sample ID: 660-28569-19
Client Matrix: Water

Date Sampled: 04/01/2009 1130
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2002
Date Prepared: 04/03/2009 2002

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0326.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	95	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: DUP-12

Lab Sample ID: 660-28569-20
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2026
Date Prepared: 04/03/2009 2026

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0327.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: DUP-12

Lab Sample ID: 660-28569-20
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2026
Date Prepared: 04/03/2009 2026

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0327.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	94	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-60

Lab Sample ID: 660-28569-21
Client Matrix: Water

Date Sampled: 04/01/2009 1637
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2050
Date Prepared: 04/03/2009 2050

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0328.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-60

Lab Sample ID: 660-28569-21
Client Matrix: Water

Date Sampled: 04/01/2009 1637
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2050
Date Prepared: 04/03/2009 2050

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0328.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	92	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: FB-040109

Lab Sample ID: 660-28569-22
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2112
Date Prepared: 04/03/2009 2112

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0329.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: FB-040109

Lab Sample ID: 660-28569-22
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2112
Date Prepared: 04/03/2009 2112

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0329.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	94	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **TW-84B**

Lab Sample ID: 660-28569-23
Client Matrix: Water

Date Sampled: 04/01/2009 1558
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2135
Date Prepared: 04/03/2009 2135

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0330.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: TW-84B

Lab Sample ID: 660-28569-23
Client Matrix: Water

Date Sampled: 04/01/2009 1558
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2135
Date Prepared: 04/03/2009 2135

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0330.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	97	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-230

Lab Sample ID: 660-28569-24
Client Matrix: Water

Date Sampled: 04/01/2009 1412
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2158
Date Prepared: 04/03/2009 2158

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0331.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-230

Lab Sample ID: 660-28569-24
Client Matrix: Water

Date Sampled: 04/01/2009 1412
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2158
Date Prepared: 04/03/2009 2158

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0331.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	92	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-179

Lab Sample ID: 660-28569-25
Client Matrix: Water

Date Sampled: 04/01/2009 1153
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2221
Date Prepared: 04/03/2009 2221

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0332.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-179

Lab Sample ID: 660-28569-25
Client Matrix: Water

Date Sampled: 04/01/2009 1153
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2221
Date Prepared: 04/03/2009 2221

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0332.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	96	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-181

Lab Sample ID: 660-28569-26
Client Matrix: Water

Date Sampled: 04/01/2009 1536
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0439
Date Prepared: 04/04/2009 0439

Analysis Batch: 660-77548

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0348.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	22		9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-181

Lab Sample ID: 660-28569-26
Client Matrix: Water

Date Sampled: 04/01/2009 1536
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0439
Date Prepared: 04/04/2009 0439

Analysis Batch: 660-77548

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0348.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	96	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-178

Lab Sample ID: 660-28569-27
Client Matrix: Water

Date Sampled: 04/01/2009 1230
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2246
Date Prepared: 04/03/2009 2246

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0333.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-178**

Lab Sample ID: 660-28569-27
Client Matrix: Water

Date Sampled: 04/01/2009 1230
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2246
Date Prepared: 04/03/2009 2246

Analysis Batch: 660-77481

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0333.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	95	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-180

Lab Sample ID: 660-28569-28
Client Matrix: Water

Date Sampled: 04/01/2009 0951
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1853
Date Prepared: 04/07/2009 1853

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0712.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-180

Lab Sample ID: 660-28569-28
Client Matrix: Water

Date Sampled: 04/01/2009 0951
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1853
Date Prepared: 04/07/2009 1853

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0712.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	98	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-116

Lab Sample ID: 660-28569-29
Client Matrix: Water

Date Sampled: 04/01/2009 0950
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0550
Date Prepared: 04/04/2009 0550

Analysis Batch: 660-77548

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0351.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-116

Lab Sample ID: 660-28569-29
Client Matrix: Water

Date Sampled: 04/01/2009 0950
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0550
Date Prepared: 04/04/2009 0550

Analysis Batch: 660-77548

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0351.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	74 - 126
Dibromofluoromethane	94	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-131**

Lab Sample ID: 660-28569-30
Client Matrix: Water

Date Sampled: 04/01/2009 1535
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2148
Date Prepared: 04/03/2009 2148

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0313.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-131

Lab Sample ID: 660-28569-30
Client Matrix: Water

Date Sampled: 04/01/2009 1535
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2148
Date Prepared: 04/03/2009 2148

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0313.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.67	I	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	107	70 - 130
Toluene-d8 (Surr)	110	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-90**

Lab Sample ID: 660-28569-31
Client Matrix: Water

Date Sampled: 04/01/2009 0910
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2206
Date Prepared: 04/03/2009 2206

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-90

Lab Sample ID: 660-28569-31
Client Matrix: Water

Date Sampled: 04/01/2009 0910
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2206
Date Prepared: 04/03/2009 2206

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U ~~J3~~	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-49

Lab Sample ID: 660-28569-32
Client Matrix: Water

Date Sampled: 04/01/2009 1035
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2223
Date Prepared: 04/03/2009 2223

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0315.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-49**

Lab Sample ID: 660-28569-32
Client Matrix: Water

Date Sampled: 04/01/2009 1035
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2223
Date Prepared: 04/03/2009 2223

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0315.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-24

Lab Sample ID: 660-28569-33
Client Matrix: Water

Date Sampled: 04/01/2009 1405
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2240
Date Prepared: 04/03/2009 2240

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-24

Lab Sample ID: 660-28569-33
Client Matrix: Water

Date Sampled: 04/01/2009 1405
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2240
Date Prepared: 04/03/2009 2240

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	108	70 - 130
Toluene-d8 (Surr)	101	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: DUP-11

Lab Sample ID: 660-28569-34
Client Matrix: Water

Date Sampled: 04/01/2009 1158
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2257
Date Prepared: 04/03/2009 2257

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0317.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.87	I	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	81	J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: DUP-11

Lab Sample ID: 660-28569-34
Client Matrix: Water

Date Sampled: 04/01/2009 1158
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2257
Date Prepared: 04/03/2009 2257

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0317.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	94	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-101

Lab Sample ID: 660-28569-35
Client Matrix: Water

Date Sampled: 04/01/2009 1158
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2315
Date Prepared: 04/03/2009 2315

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0318.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-101

Lab Sample ID: 660-28569-35
Client Matrix: Water

Date Sampled: 04/01/2009 1158
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2315
Date Prepared: 04/03/2009 2315

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0318.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	101	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-209

Lab Sample ID: 660-28569-36
Client Matrix: Water

Date Sampled: 04/01/2009 1040
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2332
Date Prepared: 04/03/2009 2332

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-209

Lab Sample ID: 660-28569-36
Client Matrix: Water

Date Sampled: 04/01/2009 1040
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2332
Date Prepared: 04/03/2009 2332

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-208**

Lab Sample ID: 660-28569-37
Client Matrix: Water

Date Sampled: 04/01/2009 1035
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2349
Date Prepared: 04/03/2009 2349

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	1.1		0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-208**

Lab Sample ID: 660-28569-37
Client Matrix: Water

Date Sampled: 04/01/2009 1035
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2349
Date Prepared: 04/03/2009 2349

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-187

Lab Sample ID: 660-28569-38
Client Matrix: Water

Date Sampled: 04/01/2009 1651
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0006
Date Prepared: 04/04/2009 0006

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-187

Lab Sample ID: 660-28569-38
Client Matrix: Water

Date Sampled: 04/01/2009 1651
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0006
Date Prepared: 04/04/2009 0006

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-210

Lab Sample ID: 660-28569-39
Client Matrix: Water

Date Sampled: 04/01/2009 1536
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0023
Date Prepared: 04/04/2009 0023

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	2.3		0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-210

Lab Sample ID: 660-28569-39
Client Matrix: Water

Date Sampled: 04/01/2009 1536
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0023
Date Prepared: 04/04/2009 0023

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-211

Lab Sample ID: 660-28569-40
Client Matrix: Water

Date Sampled: 04/01/2009 1140
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0040
Date Prepared: 04/04/2009 0040

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.92	I	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-211**

Lab Sample ID: 660-28569-40
Client Matrix: Water

Date Sampled: 04/01/2009 1140
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0040
Date Prepared: 04/04/2009 0040

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-212

Lab Sample ID: 660-28569-41
Client Matrix: Water

Date Sampled: 04/01/2009 1200
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0058
Date Prepared: 04/04/2009 0058

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	6.9		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-212

Lab Sample ID: 660-28569-41
Client Matrix: Water

Date Sampled: 04/01/2009 1200
Date Received: 04/02/2009 1140

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0058
Date Prepared: 04/04/2009 0058

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-65**

Lab Sample ID: 660-28569-1
Client Matrix: Water

Date Sampled: 04/01/2009 1147
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0007
Date Prepared: 04/03/2009 0007

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0221.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	14		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-55**

Lab Sample ID: 660-28569-2
Client Matrix: Water

Date Sampled: 04/01/2009 1303
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0033
Date Prepared: 04/03/2009 0033

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0222.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-106**

Lab Sample ID: 660-28569-3
Client Matrix: Water

Date Sampled: 04/01/2009 1059
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0100
Date Prepared: 04/03/2009 0100

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0223.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **TW-84A**

Lab Sample ID: 660-28569-4
Client Matrix: Water

Date Sampled: 04/01/2009 1525
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0124
Date Prepared: 04/03/2009 0124

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0224.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-232**

Lab Sample ID: 660-28569-5
Client Matrix: Water

Date Sampled: 04/01/2009 1552
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0148
Date Prepared: 04/03/2009 0148

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0225.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	6.1		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-132**

Lab Sample ID: 660-28569-6
Client Matrix: Water

Date Sampled: 04/01/2009 0936
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0214
Date Prepared: 04/03/2009 0214

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0226.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	8.1		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-229**

Lab Sample ID: 660-28569-7
Client Matrix: Water

Date Sampled: 04/01/2009 1338
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0239
Date Prepared: 04/03/2009 0239

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0227.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-79

Lab Sample ID: 660-28569-8
Client Matrix: Water

Date Sampled: 04/01/2009 0902
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0303
Date Prepared: 04/03/2009 0303

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0228.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	27		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-17S**

Lab Sample ID: 660-28569-9
Client Matrix: Water

Date Sampled: 04/01/2009 1015
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0327
Date Prepared: 04/03/2009 0327

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0229.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-231**

Lab Sample ID: 660-28569-10
Client Matrix: Water

Date Sampled: 04/01/2009 1455
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 0354
Date Prepared: 04/03/2009 0354

Analysis Batch: 660-77274

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0230.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-17D**

Lab Sample ID: 660-28569-11
Client Matrix: Water

Date Sampled: 04/01/2009 1055
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1611
Date Prepared: 04/03/2009 1611

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-124**

Lab Sample ID: 660-28569-12
Client Matrix: Water

Date Sampled: 04/01/2009 1012
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1718
Date Prepared: 04/03/2009 1718

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-66**

Lab Sample ID: 660-28569-13
Client Matrix: Water

Date Sampled: 04/01/2009 1005
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1740
Date Prepared: 04/03/2009 1740

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-16S

Lab Sample ID: 660-28569-14
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1802
Date Prepared: 04/03/2009 1802

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-16D**

Lab Sample ID: 660-28569-15
Client Matrix: Water

Date Sampled: 04/01/2009 1445
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1826
Date Prepared: 04/03/2009 1826

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	2.7		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **PW-57**

Lab Sample ID: 660-28569-16
Client Matrix: Water

Date Sampled: 04/01/2009 1225
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1850
Date Prepared: 04/03/2009 1850

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: DUP-10

Lab Sample ID: 660-28569-17
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1912
Date Prepared: 04/03/2009 1912

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	4.0		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-89**

Lab Sample ID: 660-28569-18
Client Matrix: Water

Date Sampled: 04/01/2009 1050
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 1936
Date Prepared: 04/03/2009 1936

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0325.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	2.2		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-113**

Lab Sample ID: 660-28569-19
Client Matrix: Water

Date Sampled: 04/01/2009 1130
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2002
Date Prepared: 04/03/2009 2002

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0326.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **DUP-12**

Lab Sample ID: 660-28569-20
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2026
Date Prepared: 04/03/2009 2026

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0327.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-60**

Lab Sample ID: 660-28569-21
Client Matrix: Water

Date Sampled: 04/01/2009 1637
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2050
Date Prepared: 04/03/2009 2050

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0328.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **FB-040109**

Lab Sample ID: 660-28569-22
Client Matrix: Water

Date Sampled: 04/01/2009 0000
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2112
Date Prepared: 04/03/2009 2112

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0329.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **TW-84B**

Lab Sample ID: 660-28569-23
Client Matrix: Water

Date Sampled: 04/01/2009 1558
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2135
Date Prepared: 04/03/2009 2135

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0330.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-230**

Lab Sample ID: 660-28569-24
Client Matrix: Water

Date Sampled: 04/01/2009 1412
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2158
Date Prepared: 04/03/2009 2158

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0331.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-179**

Lab Sample ID: 660-28569-25
Client Matrix: Water

Date Sampled: 04/01/2009 1153
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2221
Date Prepared: 04/03/2009 2221

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0332.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-181**

Lab Sample ID: 660-28569-26
Client Matrix: Water

Date Sampled: 04/01/2009 1536
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0439
Date Prepared: 04/04/2009 0439

Analysis Batch: 660-77470

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0348.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-178**

Lab Sample ID: 660-28569-27
Client Matrix: Water

Date Sampled: 04/01/2009 1230
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2246
Date Prepared: 04/03/2009 2246

Analysis Batch: 660-77443

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0333.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-180**

Lab Sample ID: 660-28569-28
Client Matrix: Water

Date Sampled: 04/01/2009 0951
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 1853
Date Prepared: 04/07/2009 1853

Analysis Batch: 660-77463

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0712.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-116**

Lab Sample ID: 660-28569-29
Client Matrix: Water

Date Sampled: 04/01/2009 0950
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0550
Date Prepared: 04/04/2009 0550

Analysis Batch: 660-77470

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0351.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-131**

Lab Sample ID: 660-28569-30
Client Matrix: Water

Date Sampled: 04/01/2009 1535
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2148
Date Prepared: 04/03/2009 2148

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0313.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-90**

Lab Sample ID: 660-28569-31
Client Matrix: Water

Date Sampled: 04/01/2009 0910
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2206
Date Prepared: 04/03/2009 2206

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-49**

Lab Sample ID: 660-28569-32
Client Matrix: Water

Date Sampled: 04/01/2009 1035
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2223
Date Prepared: 04/03/2009 2223

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0315.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: MW-24

Lab Sample ID: 660-28569-33
Client Matrix: Water

Date Sampled: 04/01/2009 1405
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2240
Date Prepared: 04/03/2009 2240

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **DUP-11**

Lab Sample ID: 660-28569-34
Client Matrix: Water

Date Sampled: 04/01/2009 1158
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2257
Date Prepared: 04/03/2009 2257

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0317.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	5.2		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-101**

Lab Sample ID: 660-28569-35
Client Matrix: Water

Date Sampled: 04/01/2009 1158
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2315
Date Prepared: 04/03/2009 2315

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0318.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	2.9		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-209**

Lab Sample ID: 660-28569-36
Client Matrix: Water

Date Sampled: 04/01/2009 1040
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2332
Date Prepared: 04/03/2009 2332

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-208**

Lab Sample ID: 660-28569-37
Client Matrix: Water

Date Sampled: 04/01/2009 1035
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/03/2009 2349
Date Prepared: 04/03/2009 2349

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-187**

Lab Sample ID: 660-28569-38
Client Matrix: Water

Date Sampled: 04/01/2009 1651
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0006
Date Prepared: 04/04/2009 0006

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-210**

Lab Sample ID: 660-28569-39
Client Matrix: Water

Date Sampled: 04/01/2009 1536
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0023
Date Prepared: 04/04/2009 0023

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-211**

Lab Sample ID: 660-28569-40
Client Matrix: Water

Date Sampled: 04/01/2009 1140
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0040
Date Prepared: 04/04/2009 0040

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28569-1
Sdg Number: 660-28569

Client Sample ID: **MW-212**

Lab Sample ID: 660-28569-41
Client Matrix: Water

Date Sampled: 04/01/2009 1200
Date Received: 04/02/2009 1140

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0058
Date Prepared: 04/04/2009 0058

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Serial Number 12263

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

6660-28569

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	80038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 4

STANDARD REPORT DELIVERY ⊘
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED: 8260 Smm 8260B	HCl PRESERVATIVE	REMARKS
4/1/09	1147	MW-65	G	X				4		
	1303	MW-55						4		
	1059	MW-106						4		
	1525	TW-84A						4		
	1552	MW-232						4		
	0936	MW-132						4		
	1338	MW-229						4		
	0902	MW-79						4		
	1015	MW-175						4		
	1455	MW-231						4		
	1055	MW-17D						4		
↓	1012	MW-124	↓	↓				4		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4.2.09	1140			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 660-	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Arnesen	4-2-09	1410			28569	5.0°, 3.0°, 3.5°C	CW07

TAL8240-660 (1207)

Page 171 of 175

R625-EDC-001214-0

Serial Number 12272

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: Arcadis	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr. #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 4

STANDARD REPORT DELIVERY (X)

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	8260B	8260B Sim	HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/1/09	1005	MW-66	G	X							4	
	1445	MW-16S									4	
	1445	MW-16D									4	
	1225	PW-57									4	
	—	DUP-10									4	
	1050	MW-89									4	
	1130	MW-113									4	
	—	DUP-12									4	
	1637	MW-60									4	
	—	FB-040109									4	
	1558	TW-84B									4	
↓	1412	MW-230	↓	↓							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4-2-09	1410
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE) Amanda Harrison	DATE	TIME
				4-2-09	1140		4-2-09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ( ) NO ( )	CUSTODY SEAL NO.	TAMPA LOG NO. L0600-28569	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	4-2-09	1410				5.0°, 3.0°, 5.5°C CU-07	

TAL8240-660 (1207)

Page 172 of 175

R625-EDC-001214-0

Serial Number 12273

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	30038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: Arcadis	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr #100 Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 4

STANDARD REPORT DELIVERY ⊘
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260 SIM	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/1/09	1153	MW-179	G	X							4	
	1536	MW-181									4	
	1536	MW-181 MS									4	
	1536	MW-181 MSD									4	
	1230	MW-178									4	
	0951	MW-180									4	
	0950	MW-116									4	
	1535	MW-131									4	
	0910	MW-90									3	
	0910	MW-90 MS									3	
	0910	MW-90 MSD									3	
↓	1035	MW-49	↓	↓							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4.2.09	1410
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-2-09	1140	Amanda Harrison	4-2-09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	4-2-09	1410			22569	5.0°, 3.0°, 3.5°	CL07

TAL8240-660 (1207)

Page 173 of 175

R625-EDC-001214-0

Serial Number 12264

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAILwast - Annual	B2038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr #100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ⊘

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260 Sim	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/1/09	1405	MW-24	G	X							4	
	1405	MW-24 MS									4	
	1405	MW-24 MSD									4	
	—	Dup-11									4	
	1158	MW-101									4	
	1040	MW-209									4	
	1035	MW-208									4	
	1651	MW-187									4	
	1536	MW-210									4	
	1140	MW-211									4	
↓	1200	MW-212	↓	↓							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1140		4-2-09	1410
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4-2-09	1140	Amanda Harrison	4/2/09	1410

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	4-2-09	1410			28569	5.0°C, 3.0°C, & 5.5°C	CU-07

TAL8240-660 (1207)

176 of 213
Page 174 of 175
R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28587

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10099R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28587 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-4 (Annual)	660-28587-1	WATER	4/2/2009		X				
MW-22 (Annual)	660-28587-10	WATER	4/2/2009		X				
MW-233 (Annual)	660-28587-11	WATER	4/2/2009		X				
MW-122 (Annual)	660-28587-12	WATER	4/2/2009		X				
MW-78 (Annual)	660-28587-13	WATER	4/2/2009		X				
MW-9S (Annual)	660-28587-14	WATER	4/2/2009		X				
MW-9D (Annual)	660-28587-15	WATER	4/2/2009		X				
MW-25 (Annual)	660-28587-16	WATER	4/2/2009		X				
Dup-15 (Annual)	660-28587-17	WATER	4/2/2009	PZ-LSAS-7 (Annual)	X				
PZ-LSAS-7 (Annual)	660-28587-18	WATER	4/2/2009		X				
Dup-13 (Annual)	660-28587-19	WATER	4/2/2009	PZ-LSAS-2 (Annual)	X				
MW-7S (Annual)	660-28587-2	WATER	4/1/2009		X				
RW-1 (Annual)	660-28587-20	WATER	4/2/2009		X				
FB-10 (Annual)	660-28587-21	WATER	4/2/2009		X				
PZ-LSAS-2 (Annual)	660-28587-22	WATER	4/2/2009		X				
PZ-LSAS-1 (Annual)	660-28587-23	WATER	4/2/2009		X				
PZ-LSAS-3 (Annual)	660-28587-24	WATER	4/2/2009		X				
PZ-LSAS-4 (Annual)	660-28587-25	WATER	4/2/2009		X				
PZ-LSAS-5 (Annual)	660-28587-26	WATER	4/2/2009		X				
MW-123 (Annual)	660-28587-27	WATER	4/2/2009		X				
MW-5 (Annual)	660-28587-28	WATER	4/2/2009		X				
MW-6 (Annual)	660-28587-29	WATER	4/2/2009		X				
MW-7D (Annual)	660-28587-3	WATER	4/1/2009		X				
Dup-14 (Annual)	660-28587-30	WATER	4/2/2009	PZ-LSAS-6 (Annual)	X				
1201 Tallevast Rd (Annual)	660-28587-31	WATER	4/2/2009		X				

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-197 (Annual)	660-28587-32	WATER	4/2/2009		X				
MW-196 (Annual)	660-28587-33	WATER	4/2/2009		X				
1107 Tallevast Road (Annual)	660-28587-34	WATER	4/2/2009		X				
7561/7571 15th St E (Annual)	660-28587-35	WATER	4/2/2009		X				
MW-84 (Annual)	660-28587-36	WATER	4/2/2009		X				
MW-11 (Annual)	660-28587-37	WATER	4/2/2009		X				
PZ-LSAS-6 (Annual)	660-28587-38	WATER	4/2/2009		X				
FB-11 (Annual)	660-28587-4	WATER	4/2/2009		X				
MW-3 (Annual)	660-28587-5	WATER	4/2/2009		X				
RW-2 (Annual)	660-28587-6	WATER	4/2/2009		X				
FB-040209 (Annual)	660-28587-7	WATER	4/2/2009		X				
DW-1 (Annual)	660-28587-8	WATER	4/2/2009		X				
FB-09 (Annual)	660-28587-9	WATER	4/2/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample locations DW-1 (Annual), MW-22 (Annual), RW-1 (Annual), MW-123 (Annual) and MW-84 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-4 (Annual) MW-7S (Annual) FB-11 (Annual) MW-3 (Annual) RW-2 (Annual) FB-040209 (Annual) DW-1 (Annual)	CCV %D	Bromomethane	-22.2%
MW-7D (Annual) MW-123 (Annual) MW-5 (Annual) MW-6 (Annual) MW-11 (Annual)	CCV %D	1,1-Dichloropropene	23.7%
		2,2-Dichloropropane	26.8%
		2-Hexanone	23.1%
		Acetone	24.7%
		Bromomethane	-22.5%
		Carbon tetrachloride	21.8%
		Chloroethane	32.2%
		Toluene	21.0%
		Trichloroethene	21.0%
Dup-15 (Annual) RW-1 (Annual) PZ-LSAS-1 (Annual)	CCV %D	1,1,2,2-Tetrachloroethane	-21.2%
		1,2-Dibromo-3-chloropropane	-22.5%
		1,2,3-Trichloropropane	-20.3%
		2-Butanone	-30.6%
		2-Hexanone	-28.1%
		4-Methyl-2-pentanone	-23.3%
		Acetone	-26.6%
		Chloroethane	-29.9%
PZ-LSAS-5 (Annual)	CCV %D	Bromomethane	-30.8%
		Chloroethane	-21.5%

Sample Locations	Initial/Continuing	Compound	Criteria
Dup-14 (Annual) 1201 Tallevast Rd (Annual) MW-197 (Annual) MW-196 (Annual) 1107 Tallevast Road (Annual) 7561/7571 15th St E (Annual) MW-84 (Annual) PZ-LSAS-6 (Annual)	CCV %D	Bromomethane	-37.3%
		Dichlorodifluoromethane	-30.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC

exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
DW-1 (Annual)	1,1-Dichloroethene	AC	>UL
MW-123 (Annual)	1,1-Dichloroethene	>UL	>UL
	Benzene	>UL	>UL
	Toluene	AC	>UL
	Trichloroethene	>UL	>UL
MW-22 (Annual)	1,4-Dioxane (SIM)	>UL	AC

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration (D).	Detect	No Action
	Non-detect	

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PZ-LSAS-2 (Annual)/Dup-13 (Annual)	1,1-Dichloroethene	150	130	AC
	cis-1,2-Dichloroethene	330	340	AC
	Trichloroethene	5400	5100	5.7%
	1,4-Dioxane (SIM)	440	410	AC
PZ-LSAS-6 (Annual)/Dup-14 (Annual)	1,1-Dichloroethene	130 I	160 I	AC
	cis-1,2-Dichloroethene	400	420	AC
	Trichloroethene	20000	24000	18.1%
	1,4-Dioxane (SIM)	370 I	270 I	AC
PZ-LSAS-7 (Annual)/Dup-15 (Annual)	1,1-Dichloroethane	45 I	38	AC
	1,1-Dichloroethene	110	73	AC
	cis-1,2-Dichloroethene	150	140	AC
	Trichloroethene	4300	2600	49.2%
	1,4-Dioxane (SIM)	63 I	120	AC

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Manual integration was performed for 1,4-Dioxane analysis on the internal standard 1,4-Dioxane-d8 for sample locations MW-4 (Annual), PZ-LSAS-1 (Annual), Dup-14 (Annual) and PZLSAS-6 (Annual). The manual integration performed by the laboratory was consistent from baseline to baseline of the primary quantitation ion; therefore the sample results were not qualified.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

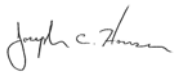
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X	X		
Matrix Spike Duplicate(MSD)		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: May 1, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 8, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-4

Lab Sample ID: 660-28587-1
Client Matrix: Water

Date Sampled: 04/02/2009 1020
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0115
Date Prepared: 04/04/2009 0115

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0325.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	12		0.52	1.0
1,1-Dichloroethene	7.7		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	10	I	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.4		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-4

Lab Sample ID: 660-28587-1
Client Matrix: Water

Date Sampled: 04/02/2009 1020
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0115
Date Prepared: 04/04/2009 0115

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0325.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	40		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-7S

Lab Sample ID: 660-28587-2
Client Matrix: Water

Date Sampled: 04/01/2009 1655
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0132
Date Prepared: 04/04/2009 0132

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0326.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-7S

Lab Sample ID: 660-28587-2
Client Matrix: Water

Date Sampled: 04/01/2009 1655
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0132
Date Prepared: 04/04/2009 0132

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0326.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	81	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-7D

Lab Sample ID: 660-28587-3
Client Matrix: Water

Date Sampled: 04/01/2009 1640
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1546
Date Prepared: 04/06/2009 1546

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0615.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-7D

Lab Sample ID: 660-28587-3
Client Matrix: Water

Date Sampled: 04/01/2009 1640
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1546
Date Prepared: 04/06/2009 1546

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0615.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-11

Lab Sample ID: 660-28587-4
Client Matrix: Water

Date Sampled: 04/02/2009 1055
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0207
Date Prepared: 04/04/2009 0207

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0328.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-11

Lab Sample ID: 660-28587-4
Client Matrix: Water

Date Sampled: 04/02/2009 1055
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0207
Date Prepared: 04/04/2009 0207

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0328.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	118	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-3

Lab Sample ID: 660-28587-5
Client Matrix: Water

Date Sampled: 04/02/2009 1215
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0224
Date Prepared: 04/04/2009 0224

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0329.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-3

Lab Sample ID: 660-28587-5
Client Matrix: Water

Date Sampled: 04/02/2009 1215
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0224
Date Prepared: 04/04/2009 0224

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0329.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: RW-2

Lab Sample ID: 660-28587-6
Client Matrix: Water

Date Sampled: 04/02/2009 1325
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0241
Date Prepared: 04/04/2009 0241

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0330.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.78	I	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	5.1		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: RW-2

Lab Sample ID: 660-28587-6
Client Matrix: Water

Date Sampled: 04/02/2009 1325
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0241
Date Prepared: 04/04/2009 0241

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0330.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	30		0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	9.9		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	90	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-040209

Lab Sample ID: 660-28587-7
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0258
Date Prepared: 04/04/2009 0258

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0331.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-040209

Lab Sample ID: 660-28587-7
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0258
Date Prepared: 04/04/2009 0258

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0331.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	120	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: DW-1

Lab Sample ID: 660-28587-8
Client Matrix: Water

Date Sampled: 04/02/2009 1400
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0315
Date Prepared: 04/04/2009 0315

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0332.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U J3	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: DW-1

Lab Sample ID: 660-28587-8
Client Matrix: Water

Date Sampled: 04/02/2009 1400
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0315
Date Prepared: 04/04/2009 0315

Analysis Batch: 660-77289

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0332.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-09

Lab Sample ID: 660-28587-9
Client Matrix: Water

Date Sampled: 04/02/2009 1145
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0614
Date Prepared: 04/04/2009 0614

Analysis Batch: 660-77548

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0352.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-09

Lab Sample ID: 660-28587-9
Client Matrix: Water

Date Sampled: 04/02/2009 1145
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0614
Date Prepared: 04/04/2009 0614

Analysis Batch: 660-77548

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0352.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-22

Lab Sample ID: 660-28587-10
Client Matrix: Water

Date Sampled: 04/02/2009 1212
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 2329
Date Prepared: 04/06/2009 2329

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0628.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-22

Lab Sample ID: 660-28587-10
Client Matrix: Water

Date Sampled: 04/02/2009 1212
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 2329
Date Prepared: 04/06/2009 2329

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0628.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	1.0		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	92	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-233

Lab Sample ID: 660-28587-11
Client Matrix: Water

Date Sampled: 04/02/2009 1015
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 0039
Date Prepared: 04/07/2009 0039

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0631.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-233

Lab Sample ID: 660-28587-11
Client Matrix: Water

Date Sampled: 04/02/2009 1015
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 0039
Date Prepared: 04/07/2009 0039

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0631.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	92	70 - 130
Toluene-d8 (Surr)	101	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-122

Lab Sample ID: 660-28587-12
Client Matrix: Water

Date Sampled: 04/02/2009 1017
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 0105
Date Prepared: 04/07/2009 0105

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0632.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-122

Lab Sample ID: 660-28587-12
Client Matrix: Water

Date Sampled: 04/02/2009 1017
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 0105
Date Prepared: 04/07/2009 0105

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0632.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	101	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-78

Lab Sample ID: 660-28587-13
Client Matrix: Water

Date Sampled: 04/02/2009 0924
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 04/07/2009 2053
Date Prepared: 04/07/2009 2053

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0717.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	1.8	U	1.8	4.0
1,1,2,2-Tetrachloroethane	0.60	U	0.60	4.0
1,1,2-Trichloroethane	1.9	U	1.9	4.0
1,1-Dichloroethane	380		2.1	4.0
1,1-Dichloroethene	360		1.8	4.0
1,1-Dichloropropene	1.2	U	1.2	4.0
1,2,3-Trichlorobenzene	3.1	U	3.1	4.0
1,2,3-Trichloropropane	0.72	U	0.72	4.0
1,2,4-Trichlorobenzene	2.3	U	2.3	4.0
1,2,4-Trimethylbenzene	3.4	U	3.4	4.0
1,2-Dibromo-3-Chloropropane	10	U	10	20
1,2-Dichlorobenzene	1.8	U	1.8	4.0
1,2-Dichloroethane	2.3	U	2.3	4.0
1,2-Dichloropropane	2.1	U	2.1	4.0
1,3,5-Trimethylbenzene	2.2	U	2.2	4.0
1,3-Dichlorobenzene	2.6	U	2.6	4.0
1,3-Dichloropropane	1.6	U	1.6	4.0
1,4-Dichlorobenzene	2.1	U	2.1	4.0
2,2-Dichloropropane	1.4	U	1.4	4.0
2-Chlorotoluene	2.6	U	2.6	4.0
2-Hexanone	18	U	18	40
4-Chlorotoluene	2.1	U	2.1	4.0
4-Isopropyltoluene	2.8	U	2.8	4.0
Acetone	40	U	40	80
Benzene	2.0	U	2.0	4.0
Bromobenzene	2.3	U	2.3	4.0
Bromoform	2.3	U	2.3	4.0
Bromomethane	10	U	10	20
Carbon disulfide	3.4	U	3.4	4.0
Carbon tetrachloride	1.7	U	1.7	4.0
Chlorobenzene	2.5	U	2.5	4.0
Chlorobromomethane	2.3	U	2.3	4.0
Chlorodibromomethane	1.4	U	1.4	4.0
Chloroethane	10	I	10	20
Chloroform	3.6	U	3.6	4.0
Chloromethane	4.0	U	4.0	16
cis-1,2-Dichloroethene	170		2.6	4.0
cis-1,3-Dichloropropene	0.56	U	0.56	4.0
Dibromomethane	1.6	U	1.6	4.0
Dichlorobromomethane	1.4	U	1.4	4.0
Dichlorodifluoromethane	10	U	10	20
Ethylbenzene	1.8	U	1.8	4.0
Ethylene Dibromide	2.0	U	2.0	4.0
Hexachlorobutadiene	1.6	U	1.6	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-78

Lab Sample ID: 660-28587-13
Client Matrix: Water

Date Sampled: 04/02/2009 0924
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 04/07/2009 2053
Date Prepared: 04/07/2009 2053

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0717.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.76	U	0.76	4.0
2-Butanone (MEK)	34	U	34	40
4-Methyl-2-pentanone (MIBK)	15	U	15	40
Methyl tert-butyl ether	1.8	U	1.8	4.0
1,1,1,2-Tetrachloroethane	2.5	U	2.5	4.0
Methylene Chloride	16	U	16	20
m-Xylene & p-Xylene	2.4	U	2.4	8.0
Naphthalene	10	U	10	20
n-Butylbenzene	2.7	U	2.7	4.0
N-Propylbenzene	2.4	U	2.4	4.0
o-Xylene	2.0	U	2.0	4.0
sec-Butylbenzene	2.5	U	2.5	4.0
Styrene	3.9	U	3.9	8.0
tert-Butylbenzene	3.4	U	3.4	4.0
Tetrachloroethene	25		2.0	4.0
Toluene	2.0	U	2.0	4.0
trans-1,2-Dichloroethene	6.4		1.8	4.0
trans-1,3-Dichloropropene	0.56	U	0.56	4.0
Trichloroethene	95		2.0	4.0
Trichlorofluoromethane	10	U	10	20
Vinyl chloride	2.0	U	2.0	4.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	95	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-9S

Lab Sample ID: 660-28587-14
Client Matrix: Water

Date Sampled: 04/02/2009 0938
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2030
Date Prepared: 04/07/2009 2030

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0716.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-9S

Lab Sample ID: 660-28587-14
Client Matrix: Water

Date Sampled: 04/02/2009 0938
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2030
Date Prepared: 04/07/2009 2030

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0716.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	94	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-9D

Lab Sample ID: 660-28587-15
Client Matrix: Water

Date Sampled: 04/02/2009 0857
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2117
Date Prepared: 04/07/2009 2117

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0718.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-9D

Lab Sample ID: 660-28587-15
Client Matrix: Water

Date Sampled: 04/02/2009 0857
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2117
Date Prepared: 04/07/2009 2117

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0718.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-25

Lab Sample ID: 660-28587-16
Client Matrix: Water

Date Sampled: 04/02/2009 1107
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2140
Date Prepared: 04/07/2009 2140

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0719.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	6.4		0.52	1.0
1,1-Dichloroethene	4.0		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.2		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-25

Lab Sample ID: 660-28587-16
Client Matrix: Water

Date Sampled: 04/02/2009 1107
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2140
Date Prepared: 04/07/2009 2140

Analysis Batch: 660-77462

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0719.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	2.0		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	96	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **Dup-15**

Lab Sample ID: 660-28587-17
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 04/08/2009 1408
Date Prepared: 04/08/2009 1408

Analysis Batch: 660-77666

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0815.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	12	U	12	25
1,1,2,2-Tetrachloroethane	3.8	U J	3.8	25
1,1,2-Trichloroethane	12	U	12	25
1,1-Dichloroethane	38		13	25
1,1-Dichloroethene	73		11	25
1,1-Dichloropropene	7.8	U	7.8	25
1,2,3-Trichlorobenzene	19	U	19	25
1,2,3-Trichloropropane	4.5	U J	4.5	25
1,2,4-Trichlorobenzene	14	U	14	25
1,2,4-Trimethylbenzene	22	U	22	25
1,2-Dibromo-3-Chloropropane	62	U J	62	120
1,2-Dichlorobenzene	11	U	11	25
1,2-Dichloroethane	14	U	14	25
1,2-Dichloropropane	13	U	13	25
1,3,5-Trimethylbenzene	14	U	14	25
1,3-Dichlorobenzene	16	U	16	25
1,3-Dichloropropane	9.8	U	9.8	25
1,4-Dichlorobenzene	13	U	13	25
2,2-Dichloropropane	9.0	U	9.0	25
2-Chlorotoluene	16	U	16	25
2-Hexanone	110	U J	110	250
4-Chlorotoluene	13	U	13	25
4-Isopropyltoluene	17	U	17	25
Acetone	250	U J	250	500
Benzene	12	U	12	25
Bromobenzene	14	U	14	25
Bromoform	14	U	14	25
Bromomethane	62	U	62	120
Carbon disulfide	21	U	21	25
Carbon tetrachloride	10	U	10	25
Chlorobenzene	16	U	16	25
Chlorobromomethane	14	U	14	25
Chlorodibromomethane	8.5	U	8.5	25
Chloroethane	62	U J	62	120
Chloroform	22	U	22	25
Chloromethane	25	U	25	100
cis-1,2-Dichloroethene	140		16	25
cis-1,3-Dichloropropene	3.5	U	3.5	25
Dibromomethane	10	U	10	25
Dichlorobromomethane	8.8	U	8.8	25
Dichlorodifluoromethane	62	U	62	120
Ethylbenzene	11	U	11	25
Ethylene Dibromide	12	U	12	25
Hexachlorobutadiene	10	U	10	25

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: Dup-15

Lab Sample ID: 660-28587-17
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 04/08/2009 1408
Date Prepared: 04/08/2009 1408

Analysis Batch: 660-77666

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0815.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	4.8	U	4.8	25
2-Butanone (MEK)	210	U	210	250
4-Methyl-2-pentanone (MIBK)	95	U	95	250
Methyl tert-butyl ether	11	U	11	25
1,1,1,2-Tetrachloroethane	16	U	16	25
Methylene Chloride	100	U	100	120
m-Xylene & p-Xylene	15	U	15	50
Naphthalene	62	U	62	120
n-Butylbenzene	17	U	17	25
N-Propylbenzene	15	U	15	25
o-Xylene	12	U	12	25
sec-Butylbenzene	16	U	16	25
Styrene	24	U	24	50
tert-Butylbenzene	21	U	21	25
Tetrachloroethene	12	U	12	25
Toluene	13	U	13	25
trans-1,2-Dichloroethene	11	U	11	25
trans-1,3-Dichloropropene	3.5	U	3.5	25
Trichloroethene	2600		12	25
Trichlorofluoromethane	62	U	62	120
Vinyl chloride	12	U	12	25

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	90	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-7

Lab Sample ID: 660-28587-18
Client Matrix: Water

Date Sampled: 04/02/2009 1444
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/09/2009 1755
Date Prepared: 04/09/2009 1755

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0925.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	23	U	23	50
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
1,1,2-Trichloroethane	24	U	24	50
1,1-Dichloroethane	45	I	26	50
1,1-Dichloroethene	110		22	50
1,1-Dichloropropene	16	U	16	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trichlorobenzene	29	U	29	50
1,2,4-Trimethylbenzene	43	U	43	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
1,2-Dichlorobenzene	22	U	22	50
1,2-Dichloroethane	28	U	28	50
1,2-Dichloropropane	26	U	26	50
1,3,5-Trimethylbenzene	27	U	27	50
1,3-Dichlorobenzene	32	U	32	50
1,3-Dichloropropane	20	U	20	50
1,4-Dichlorobenzene	26	U	26	50
2,2-Dichloropropane	18	U	18	50
2-Chlorotoluene	32	U	32	50
2-Hexanone	220	U	220	500
4-Chlorotoluene	26	U	26	50
4-Isopropyltoluene	34	U	34	50
Acetone	500	U	500	1000
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Bromoform	29	U	29	50
Bromomethane	120	U	120	250
Carbon disulfide	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chlorobromomethane	29	U	29	50
Chlorodibromomethane	17	U	17	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
cis-1,2-Dichloroethene	150		32	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
Dibromomethane	20	U	20	50
Dichlorobromomethane	18	U	18	50
Dichlorodifluoromethane	120	U	120	250
Ethylbenzene	22	U	22	50
Ethylene Dibromide	25	U	25	50
Hexachlorobutadiene	20	U	20	50

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-7

Lab Sample ID: 660-28587-18
Client Matrix: Water

Date Sampled: 04/02/2009 1444
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/09/2009 1755
Date Prepared: 04/09/2009 1755

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0925.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	9.5	U	9.5	50
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Methyl tert-butyl ether	22	U	22	50
1,1,1,2-Tetrachloroethane	32	U	32	50
Methylene Chloride	200	U	200	250
m-Xylene & p-Xylene	30	U	30	100
Naphthalene	120	U	120	250
n-Butylbenzene	34	U	34	50
N-Propylbenzene	30	U	30	50
o-Xylene	25	U	25	50
sec-Butylbenzene	32	U	32	50
Styrene	49	U	49	100
tert-Butylbenzene	42	U	42	50
Tetrachloroethene	25	U	25	50
Toluene	26	U	26	50
trans-1,2-Dichloroethene	22	U	22	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Trichloroethene	4300		25	50
Trichlorofluoromethane	120	U	120	250
Vinyl chloride	25	U	25	50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: Dup-13

Lab Sample ID: 660-28587-19
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1817
Date Prepared: 04/09/2009 1817

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0926.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	46	U	46	100
1,1,2,2-Tetrachloroethane	15	U	15	100
1,1,2-Trichloroethane	47	U	47	100
1,1-Dichloroethane	52	U	52	100
1,1-Dichloroethene	130		45	100
1,1-Dichloropropene	31	U	31	100
1,2,3-Trichlorobenzene	77	U	77	100
1,2,3-Trichloropropane	18	U	18	100
1,2,4-Trichlorobenzene	58	U	58	100
1,2,4-Trimethylbenzene	86	U	86	100
1,2-Dibromo-3-Chloropropane	250	U	250	500
1,2-Dichlorobenzene	44	U	44	100
1,2-Dichloroethane	57	U	57	100
1,2-Dichloropropane	52	U	52	100
1,3,5-Trimethylbenzene	54	U	54	100
1,3-Dichlorobenzene	64	U	64	100
1,3-Dichloropropane	39	U	39	100
1,4-Dichlorobenzene	52	U	52	100
2,2-Dichloropropane	36	U	36	100
2-Chlorotoluene	65	U	65	100
2-Hexanone	440	U	440	1000
4-Chlorotoluene	52	U	52	100
4-Isopropyltoluene	69	U	69	100
Acetone	990	U	990	2000
Benzene	50	U	50	100
Bromobenzene	58	U	58	100
Bromoform	58	U	58	100
Bromomethane	250	U	250	500
Carbon disulfide	85	U	85	100
Carbon tetrachloride	42	U	42	100
Chlorobenzene	63	U	63	100
Chlorobromomethane	58	U	58	100
Chlorodibromomethane	34	U	34	100
Chloroethane	250	U	250	500
Chloroform	90	U	90	100
Chloromethane	100	U	100	400
cis-1,2-Dichloroethene	340		65	100
cis-1,3-Dichloropropene	14	U	14	100
Dibromomethane	41	U	41	100
Dichlorobromomethane	35	U	35	100
Dichlorodifluoromethane	250	U	250	500
Ethylbenzene	44	U	44	100
Ethylene Dibromide	50	U	50	100
Hexachlorobutadiene	40	U	40	100

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: Dup-13

Lab Sample ID: 660-28587-19
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1817
Date Prepared: 04/09/2009 1817

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0926.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	19	U	19	100
2-Butanone (MEK)	840	U	840	1000
4-Methyl-2-pentanone (MIBK)	380	U	380	1000
Methyl tert-butyl ether	44	U	44	100
1,1,1,2-Tetrachloroethane	63	U	63	100
Methylene Chloride	400	U	400	500
m-Xylene & p-Xylene	60	U	60	200
Naphthalene	250	U	250	500
n-Butylbenzene	67	U	67	100
N-Propylbenzene	59	U	59	100
o-Xylene	50	U	50	100
sec-Butylbenzene	63	U	63	100
Styrene	98	U	98	200
tert-Butylbenzene	84	U	84	100
Tetrachloroethene	50	U	50	100
Toluene	51	U	51	100
trans-1,2-Dichloroethene	44	U	44	100
trans-1,3-Dichloropropene	14	U	14	100
Trichloroethene	5100		50	100
Trichlorofluoromethane	250	U	250	500
Vinyl chloride	50	U	50	100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **RW-1**

Lab Sample ID: 660-28587-20
Client Matrix: Water

Date Sampled: 04/02/2009 1203
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1235
Date Prepared: 04/08/2009 1235

Analysis Batch: 660-77666

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0811.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U J	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	110		0.52	1.0
1,1-Dichloroethene	7.0		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U J	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U J	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U J	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.1		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: RW-1

Lab Sample ID: 660-28587-20
Client Matrix: Water

Date Sampled: 04/02/2009 1203
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1235
Date Prepared: 04/08/2009 1235

Analysis Batch: 660-77666

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0811.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	3.0		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-10

Lab Sample ID: 660-28587-21
Client Matrix: Water

Date Sampled: 04/02/2009 1115
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 2243
Date Prepared: 04/06/2009 2243

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0626.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-10

Lab Sample ID: 660-28587-21
Client Matrix: Water

Date Sampled: 04/02/2009 1115
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 2243
Date Prepared: 04/06/2009 2243

Analysis Batch: 660-77674

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0626.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-2

Lab Sample ID: 660-28587-22
Client Matrix: Water

Date Sampled: 04/02/2009 1110
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1841
Date Prepared: 04/09/2009 1841

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0927.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	46	U	46	100
1,1,2,2-Tetrachloroethane	15	U	15	100
1,1,2-Trichloroethane	47	U	47	100
1,1-Dichloroethane	52	U	52	100
1,1-Dichloroethene	150		45	100
1,1-Dichloropropene	31	U	31	100
1,2,3-Trichlorobenzene	77	U	77	100
1,2,3-Trichloropropane	18	U	18	100
1,2,4-Trichlorobenzene	58	U	58	100
1,2,4-Trimethylbenzene	86	U	86	100
1,2-Dibromo-3-Chloropropane	250	U	250	500
1,2-Dichlorobenzene	44	U	44	100
1,2-Dichloroethane	57	U	57	100
1,2-Dichloropropane	52	U	52	100
1,3,5-Trimethylbenzene	54	U	54	100
1,3-Dichlorobenzene	64	U	64	100
1,3-Dichloropropane	39	U	39	100
1,4-Dichlorobenzene	52	U	52	100
2,2-Dichloropropane	36	U	36	100
2-Chlorotoluene	65	U	65	100
2-Hexanone	440	U	440	1000
4-Chlorotoluene	52	U	52	100
4-Isopropyltoluene	69	U	69	100
Acetone	990	U	990	2000
Benzene	50	U	50	100
Bromobenzene	58	U	58	100
Bromoform	58	U	58	100
Bromomethane	250	U	250	500
Carbon disulfide	85	U	85	100
Carbon tetrachloride	42	U	42	100
Chlorobenzene	63	U	63	100
Chlorobromomethane	58	U	58	100
Chlorodibromomethane	34	U	34	100
Chloroethane	250	U	250	500
Chloroform	90	U	90	100
Chloromethane	100	U	100	400
cis-1,2-Dichloroethene	330		65	100
cis-1,3-Dichloropropene	14	U	14	100
Dibromomethane	41	U	41	100
Dichlorobromomethane	35	U	35	100
Dichlorodifluoromethane	250	U	250	500
Ethylbenzene	44	U	44	100
Ethylene Dibromide	50	U	50	100
Hexachlorobutadiene	40	U	40	100

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-2

Lab Sample ID: 660-28587-22
Client Matrix: Water

Date Sampled: 04/02/2009 1110
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1841
Date Prepared: 04/09/2009 1841

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0927.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	19	U	19	100
2-Butanone (MEK)	840	U	840	1000
4-Methyl-2-pentanone (MIBK)	380	U	380	1000
Methyl tert-butyl ether	44	U	44	100
1,1,1,2-Tetrachloroethane	63	U	63	100
Methylene Chloride	400	U	400	500
m-Xylene & p-Xylene	60	U	60	200
Naphthalene	250	U	250	500
n-Butylbenzene	67	U	67	100
N-Propylbenzene	59	U	59	100
o-Xylene	50	U	50	100
sec-Butylbenzene	63	U	63	100
Styrene	98	U	98	200
tert-Butylbenzene	84	U	84	100
Tetrachloroethene	50	U	50	100
Toluene	51	U	51	100
trans-1,2-Dichloroethene	44	U	44	100
trans-1,3-Dichloropropene	14	U	14	100
Trichloroethene	5400		50	100
Trichlorofluoromethane	250	U	250	500
Vinyl chloride	50	U	50	100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	92	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-1

Lab Sample ID: 660-28587-23
Client Matrix: Water

Date Sampled: 04/02/2009 1115
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1344
Date Prepared: 04/08/2009 1344

Analysis Batch: 660-77666

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0814.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U J	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	1.0		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U J	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U J	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U J	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U J	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.9		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-1

Lab Sample ID: 660-28587-23
Client Matrix: Water

Date Sampled: 04/02/2009 1115
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1344
Date Prepared: 04/08/2009 1344

Analysis Batch: 660-77666

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0814.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	15		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	95	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-3

Lab Sample ID: 660-28587-24
Client Matrix: Water

Date Sampled: 04/02/2009 0835
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/09/2009 1906
Date Prepared: 04/09/2009 1906

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0928.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	23	U	23	50
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
1,1,2-Trichloroethane	24	U	24	50
1,1-Dichloroethane	28	I	26	50
1,1-Dichloroethene	130		22	50
1,1-Dichloropropene	16	U	16	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trichlorobenzene	29	U	29	50
1,2,4-Trimethylbenzene	43	U	43	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
1,2-Dichlorobenzene	22	U	22	50
1,2-Dichloroethane	28	U	28	50
1,2-Dichloropropane	26	U	26	50
1,3,5-Trimethylbenzene	27	U	27	50
1,3-Dichlorobenzene	32	U	32	50
1,3-Dichloropropane	20	U	20	50
1,4-Dichlorobenzene	26	U	26	50
2,2-Dichloropropane	18	U	18	50
2-Chlorotoluene	32	U	32	50
2-Hexanone	220	U	220	500
4-Chlorotoluene	26	U	26	50
4-Isopropyltoluene	34	U	34	50
Acetone	500	U	500	1000
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Bromoform	29	U	29	50
Bromomethane	120	U	120	250
Carbon disulfide	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chlorobromomethane	29	U	29	50
Chlorodibromomethane	17	U	17	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
cis-1,2-Dichloroethene	120		32	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
Dibromomethane	20	U	20	50
Dichlorobromomethane	18	U	18	50
Dichlorodifluoromethane	120	U	120	250
Ethylbenzene	22	U	22	50
Ethylene Dibromide	25	U	25	50
Hexachlorobutadiene	20	U	20	50

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-3

Lab Sample ID: 660-28587-24
Client Matrix: Water

Date Sampled: 04/02/2009 0835
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/09/2009 1906
Date Prepared: 04/09/2009 1906

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0928.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	9.5	U	9.5	50
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Methyl tert-butyl ether	22	U	22	50
1,1,1,2-Tetrachloroethane	32	U	32	50
Methylene Chloride	200	U	200	250
m-Xylene & p-Xylene	30	U	30	100
Naphthalene	120	U	120	250
n-Butylbenzene	34	U	34	50
N-Propylbenzene	30	U	30	50
o-Xylene	25	U	25	50
sec-Butylbenzene	32	U	32	50
Styrene	49	U	49	100
tert-Butylbenzene	42	U	42	50
Tetrachloroethene	25	U	25	50
Toluene	26	U	26	50
trans-1,2-Dichloroethene	22	U	22	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Trichloroethene	4600		25	50
Trichlorofluoromethane	120	U	120	250
Vinyl chloride	25	U	25	50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	99	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-4

Lab Sample ID: 660-28587-25
Client Matrix: Water

Date Sampled: 04/02/2009 0956
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1929
Date Prepared: 04/09/2009 1929

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0929.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	46	U	46	100
1,1,2,2-Tetrachloroethane	15	U	15	100
1,1,2-Trichloroethane	47	U	47	100
1,1-Dichloroethane	52	U	52	100
1,1-Dichloroethene	160		45	100
1,1-Dichloropropene	31	U	31	100
1,2,3-Trichlorobenzene	77	U	77	100
1,2,3-Trichloropropane	18	U	18	100
1,2,4-Trichlorobenzene	58	U	58	100
1,2,4-Trimethylbenzene	86	U	86	100
1,2-Dibromo-3-Chloropropane	250	U	250	500
1,2-Dichlorobenzene	44	U	44	100
1,2-Dichloroethane	57	U	57	100
1,2-Dichloropropane	52	U	52	100
1,3,5-Trimethylbenzene	54	U	54	100
1,3-Dichlorobenzene	64	U	64	100
1,3-Dichloropropane	39	U	39	100
1,4-Dichlorobenzene	52	U	52	100
2,2-Dichloropropane	36	U	36	100
2-Chlorotoluene	65	U	65	100
2-Hexanone	440	U	440	1000
4-Chlorotoluene	52	U	52	100
4-Isopropyltoluene	69	U	69	100
Acetone	990	U	990	2000
Benzene	50	U	50	100
Bromobenzene	58	U	58	100
Bromoform	58	U	58	100
Bromomethane	250	U	250	500
Carbon disulfide	85	U	85	100
Carbon tetrachloride	42	U	42	100
Chlorobenzene	63	U	63	100
Chlorobromomethane	58	U	58	100
Chlorodibromomethane	34	U	34	100
Chloroethane	250	U	250	500
Chloroform	90	U	90	100
Chloromethane	100	U	100	400
cis-1,2-Dichloroethene	650		65	100
cis-1,3-Dichloropropene	14	U	14	100
Dibromomethane	41	U	41	100
Dichlorobromomethane	35	U	35	100
Dichlorodifluoromethane	250	U	250	500
Ethylbenzene	44	U	44	100
Ethylene Dibromide	50	U	50	100
Hexachlorobutadiene	40	U	40	100

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-4

Lab Sample ID: 660-28587-25
Client Matrix: Water

Date Sampled: 04/02/2009 0956
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1929
Date Prepared: 04/09/2009 1929

Analysis Batch: 660-77663

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0929.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	19	U	19	100
2-Butanone (MEK)	840	U	840	1000
4-Methyl-2-pentanone (MIBK)	380	U	380	1000
Methyl tert-butyl ether	44	U	44	100
1,1,1,2-Tetrachloroethane	63	U	63	100
Methylene Chloride	400	U	400	500
m-Xylene & p-Xylene	60	U	60	200
Naphthalene	250	U	250	500
n-Butylbenzene	67	U	67	100
N-Propylbenzene	59	U	59	100
o-Xylene	50	U	50	100
sec-Butylbenzene	63	U	63	100
Styrene	98	U	98	200
tert-Butylbenzene	84	U	84	100
Tetrachloroethene	50	U	50	100
Toluene	51	U	51	100
trans-1,2-Dichloroethene	44	U	44	100
trans-1,3-Dichloropropene	14	U	14	100
Trichloroethene	5400		50	100
Trichlorofluoromethane	250	U	250	500
Vinyl chloride	50	U	50	100

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	93	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-5

Lab Sample ID: 660-28587-26
Client Matrix: Water

Date Sampled: 04/02/2009 0915
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/13/2009 1151
Date Prepared: 04/13/2009 1151

Analysis Batch: 660-77686

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD1310.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	23	U	23	50
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
1,1,2-Trichloroethane	24	U	24	50
1,1-Dichloroethane	26	U	26	50
1,1-Dichloroethene	140		22	50
1,1-Dichloropropene	16	U	16	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trichlorobenzene	29	U	29	50
1,2,4-Trimethylbenzene	43	U	43	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
1,2-Dichlorobenzene	22	U	22	50
1,2-Dichloroethane	28	U	28	50
1,2-Dichloropropane	26	U	26	50
1,3,5-Trimethylbenzene	27	U	27	50
1,3-Dichlorobenzene	32	U	32	50
1,3-Dichloropropane	20	U	20	50
1,4-Dichlorobenzene	26	U	26	50
2,2-Dichloropropane	18	U	18	50
2-Chlorotoluene	32	U	32	50
2-Hexanone	220	U	220	500
4-Chlorotoluene	26	U	26	50
4-Isopropyltoluene	34	U	34	50
Acetone	500	U	500	1000
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Bromoform	29	U	29	50
Bromomethane	120	U J	120	250
Carbon disulfide	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chlorobromomethane	29	U	29	50
Chlorodibromomethane	17	U	17	50
Chloroethane	120	U J	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
cis-1,2-Dichloroethene	340		32	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
Dibromomethane	20	U	20	50
Dichlorobromomethane	18	U	18	50
Dichlorodifluoromethane	120	U	120	250
Ethylbenzene	22	U	22	50
Ethylene Dibromide	25	U	25	50
Hexachlorobutadiene	20	U	20	50

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-5

Lab Sample ID: 660-28587-26
Client Matrix: Water

Date Sampled: 04/02/2009 0915
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/13/2009 1151
Date Prepared: 04/13/2009 1151

Analysis Batch: 660-77686

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD1310.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	9.5	U	9.5	50
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Methyl tert-butyl ether	22	U	22	50
1,1,1,2-Tetrachloroethane	32	U	32	50
Methylene Chloride	200	U	200	250
m-Xylene & p-Xylene	30	U	30	100
Naphthalene	120	U	120	250
n-Butylbenzene	34	U	34	50
N-Propylbenzene	30	U	30	50
o-Xylene	25	U	25	50
sec-Butylbenzene	32	U	32	50
Styrene	49	U	49	100
tert-Butylbenzene	42	U	42	50
Tetrachloroethene	25	U	25	50
Toluene	26	U	26	50
trans-1,2-Dichloroethene	22	U	22	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Trichloroethene	4300		25	50
Trichlorofluoromethane	120	U	120	250
Vinyl chloride	25	U	25	50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	74 - 126
Dibromofluoromethane	95	70 - 130
Toluene-d8 (Surr)	102	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-123

Lab Sample ID: 660-28587-27
Client Matrix: Water

Date Sampled: 04/02/2009 1458
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1603
Date Prepared: 04/06/2009 1603

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0616.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	1.9	~~J3~~ J	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U ~~J3~~	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-123

Lab Sample ID: 660-28587-27
Client Matrix: Water

Date Sampled: 04/02/2009 1458
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1603
Date Prepared: 04/06/2009 1603

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0616.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U ~~J3~~	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	2.2	~~J3~~ J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-5

Lab Sample ID: 660-28587-28
Client Matrix: Water

Date Sampled: 04/02/2009 1346
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1621
Date Prepared: 04/06/2009 1621

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0617.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-5

Lab Sample ID: 660-28587-28
Client Matrix: Water

Date Sampled: 04/02/2009 1346
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1621
Date Prepared: 04/06/2009 1621

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0617.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	119	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-6

Lab Sample ID: 660-28587-29
Client Matrix: Water

Date Sampled: 04/02/2009 1454
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1638
Date Prepared: 04/06/2009 1638

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0618.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-6

Lab Sample ID: 660-28587-29
Client Matrix: Water

Date Sampled: 04/02/2009 1454
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1638
Date Prepared: 04/06/2009 1638

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0618.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	88	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: Dup-14

Lab Sample ID: 660-28587-30
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 250
Date Analyzed: 04/08/2009 0941
Date Prepared: 04/08/2009 0941

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0733.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	120	U	120	250
1,1,2,2-Tetrachloroethane	38	U	38	250
1,1,2-Trichloroethane	120	U	120	250
1,1-Dichloroethane	130	U	130	250
1,1-Dichloroethene	160	I	110	250
1,1-Dichloropropene	78	U	78	250
1,2,3-Trichlorobenzene	190	U	190	250
1,2,3-Trichloropropane	45	U	45	250
1,2,4-Trichlorobenzene	140	U	140	250
1,2,4-Trimethylbenzene	220	U	220	250
1,2-Dibromo-3-Chloropropane	620	U	620	1200
1,2-Dichlorobenzene	110	U	110	250
1,2-Dichloroethane	140	U	140	250
1,2-Dichloropropane	130	U	130	250
1,3,5-Trimethylbenzene	140	U	140	250
1,3-Dichlorobenzene	160	U	160	250
1,3-Dichloropropane	98	U	98	250
1,4-Dichlorobenzene	130	U	130	250
2,2-Dichloropropane	90	U	90	250
2-Chlorotoluene	160	U	160	250
2-Hexanone	1100	U	1100	2500
4-Chlorotoluene	130	U	130	250
4-Isopropyltoluene	170	U	170	250
Acetone	2500	U	2500	5000
Benzene	120	U	120	250
Bromobenzene	140	U	140	250
Bromoform	140	U	140	250
Bromomethane	620	U J	620	1200
Carbon disulfide	210	U	210	250
Carbon tetrachloride	100	U	100	250
Chlorobenzene	160	U	160	250
Chlorobromomethane	140	U	140	250
Chlorodibromomethane	85	U	85	250
Chloroethane	620	U	620	1200
Chloroform	220	U	220	250
Chloromethane	250	U	250	1000
cis-1,2-Dichloroethene	420		160	250
cis-1,3-Dichloropropene	35	U	35	250
Dibromomethane	100	U	100	250
Dichlorobromomethane	88	U	88	250
Dichlorodifluoromethane	620	U J	620	1200
Ethylbenzene	110	U	110	250
Ethylene Dibromide	120	U	120	250
Hexachlorobutadiene	100	U	100	250

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: Dup-14

Lab Sample ID: 660-28587-30
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 250
Date Analyzed: 04/08/2009 0941
Date Prepared: 04/08/2009 0941

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0733.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	48	U	48	250
2-Butanone (MEK)	2100	U	2100	2500
4-Methyl-2-pentanone (MIBK)	950	U	950	2500
Methyl tert-butyl ether	110	U	110	250
1,1,1,2-Tetrachloroethane	160	U	160	250
Methylene Chloride	1000	U	1000	1200
m-Xylene & p-Xylene	150	U	150	500
Naphthalene	620	U	620	1200
n-Butylbenzene	170	U	170	250
N-Propylbenzene	150	U	150	250
o-Xylene	120	U	120	250
sec-Butylbenzene	160	U	160	250
Styrene	240	U	240	500
tert-Butylbenzene	210	U	210	250
Tetrachloroethene	120	U	120	250
Toluene	130	U	130	250
trans-1,2-Dichloroethene	110	U	110	250
trans-1,3-Dichloropropene	35	U	35	250
Trichloroethene	24000		120	250
Trichlorofluoromethane	620	U	620	1200
Vinyl chloride	120	U	120	250

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	104	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **1201 Tallevast Rd**

Lab Sample ID: 660-28587-31
Client Matrix: Water

Date Sampled: 04/02/2009 1100
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0707
Date Prepared: 04/08/2009 0707

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0724.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: 1201 Tallevast Rd

Lab Sample ID: 660-28587-31
Client Matrix: Water

Date Sampled: 04/02/2009 1100
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0707
Date Prepared: 04/08/2009 0707

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0724.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	104	70 - 130
Toluene-d8 (Surr)	95	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-197

Lab Sample ID: 660-28587-32
Client Matrix: Water

Date Sampled: 04/02/2009 0955
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0742
Date Prepared: 04/08/2009 0742

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-197

Lab Sample ID: 660-28587-32
Client Matrix: Water

Date Sampled: 04/02/2009 0955
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0742
Date Prepared: 04/08/2009 0742

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-196

Lab Sample ID: 660-28587-33
Client Matrix: Water

Date Sampled: 04/02/2009 0851
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0759
Date Prepared: 04/08/2009 0759

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0727.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-196

Lab Sample ID: 660-28587-33
Client Matrix: Water

Date Sampled: 04/02/2009 0851
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0759
Date Prepared: 04/08/2009 0759

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0727.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	1.3		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	120	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **1107 Tallevast RD**

Lab Sample ID: 660-28587-34
Client Matrix: Water

Date Sampled: 04/02/2009 1140
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0724
Date Prepared: 04/08/2009 0724

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0725.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **1107 Tallevast RD**

Lab Sample ID: 660-28587-34
Client Matrix: Water

Date Sampled: 04/02/2009 1140
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0724
Date Prepared: 04/08/2009 0724

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0725.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: 7561/7571 15th St E

Lab Sample ID: 660-28587-35
Client Matrix: Water

Date Sampled: 04/02/2009 1030
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0816
Date Prepared: 04/08/2009 0816

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **7561/7571 15th St E**

Lab Sample ID: 660-28587-35
Client Matrix: Water

Date Sampled: 04/02/2009 1030
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0816
Date Prepared: 04/08/2009 0816

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	105	70 - 130
Toluene-d8 (Surr)	96	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-84

Lab Sample ID: 660-28587-36
Client Matrix: Water

Date Sampled: 04/02/2009 1609
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0833
Date Prepared: 04/08/2009 0833

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-84

Lab Sample ID: 660-28587-36
Client Matrix: Water

Date Sampled: 04/02/2009 1609
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0833
Date Prepared: 04/08/2009 0833

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	97	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-11

Lab Sample ID: 660-28587-37
Client Matrix: Water

Date Sampled: 04/02/2009 1445
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1855
Date Prepared: 04/06/2009 1855

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0626.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.70	I	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-11

Lab Sample ID: 660-28587-37
Client Matrix: Water

Date Sampled: 04/02/2009 1445
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1855
Date Prepared: 04/06/2009 1855

Analysis Batch: 660-77353

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0626.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	1.9		0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	16		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	102	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZLSAS-6

Lab Sample ID: 660-28587-38
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 250
Date Analyzed: 04/08/2009 0907
Date Prepared: 04/08/2009 0907

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	120	U	120	250
1,1,2,2-Tetrachloroethane	38	U	38	250
1,1,2-Trichloroethane	120	U	120	250
1,1-Dichloroethane	130	U	130	250
1,1-Dichloroethene	130	I	110	250
1,1-Dichloropropene	78	U	78	250
1,2,3-Trichlorobenzene	190	U	190	250
1,2,3-Trichloropropane	45	U	45	250
1,2,4-Trichlorobenzene	140	U	140	250
1,2,4-Trimethylbenzene	220	U	220	250
1,2-Dibromo-3-Chloropropane	620	U	620	1200
1,2-Dichlorobenzene	110	U	110	250
1,2-Dichloroethane	140	U	140	250
1,2-Dichloropropane	130	U	130	250
1,3,5-Trimethylbenzene	140	U	140	250
1,3-Dichlorobenzene	160	U	160	250
1,3-Dichloropropane	98	U	98	250
1,4-Dichlorobenzene	130	U	130	250
2,2-Dichloropropane	90	U	90	250
2-Chlorotoluene	160	U	160	250
2-Hexanone	1100	U	1100	2500
4-Chlorotoluene	130	U	130	250
4-Isopropyltoluene	170	U	170	250
Acetone	2500	U	2500	5000
Benzene	120	U	120	250
Bromobenzene	140	U	140	250
Bromoform	140	U	140	250
Bromomethane	620	U	620	1200
Carbon disulfide	210	U	210	250
Carbon tetrachloride	100	U	100	250
Chlorobenzene	160	U	160	250
Chlorobromomethane	140	U	140	250
Chlorodibromomethane	85	U	85	250
Chloroethane	620	U	620	1200
Chloroform	220	U	220	250
Chloromethane	250	U	250	1000
cis-1,2-Dichloroethene	400		160	250
cis-1,3-Dichloropropene	35	U	35	250
Dibromomethane	100	U	100	250
Dichlorobromomethane	88	U	88	250
Dichlorodifluoromethane	620	U	620	1200
Ethylbenzene	110	U	110	250
Ethylene Dibromide	120	U	120	250
Hexachlorobutadiene	100	U	100	250

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZLSAS-6

Lab Sample ID: 660-28587-38
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 250
Date Analyzed: 04/08/2009 0907
Date Prepared: 04/08/2009 0907

Analysis Batch: 660-77441

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	48	U	48	250
2-Butanone (MEK)	2100	U	2100	2500
4-Methyl-2-pentanone (MIBK)	950	U	950	2500
Methyl tert-butyl ether	110	U	110	250
1,1,1,2-Tetrachloroethane	160	U	160	250
Methylene Chloride	1000	U	1000	1200
m-Xylene & p-Xylene	150	U	150	500
Naphthalene	620	U	620	1200
n-Butylbenzene	170	U	170	250
N-Propylbenzene	150	U	150	250
o-Xylene	120	U	120	250
sec-Butylbenzene	160	U	160	250
Styrene	240	U	240	500
tert-Butylbenzene	210	U	210	250
Tetrachloroethene	120	U	120	250
Toluene	130	U	130	250
trans-1,2-Dichloroethene	110	U	110	250
trans-1,3-Dichloropropene	35	U	35	250
Trichloroethene	20000		120	250
Trichlorofluoromethane	620	U	620	1200
Vinyl chloride	120	U	120	250

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	106	70 - 130
Toluene-d8 (Surr)	98	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-4

Lab Sample ID: 660-28587-1
Client Matrix: Water

Date Sampled: 04/02/2009 1020
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0115
Date Prepared: 04/04/2009 0115

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0325.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-7S

Lab Sample ID: 660-28587-2
Client Matrix: Water

Date Sampled: 04/01/2009 1655
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0132
Date Prepared: 04/04/2009 0132

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0326.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-7D

Lab Sample ID: 660-28587-3
Client Matrix: Water

Date Sampled: 04/01/2009 1640
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1546
Date Prepared: 04/06/2009 1546

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0615.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-11

Lab Sample ID: 660-28587-4
Client Matrix: Water

Date Sampled: 04/02/2009 1055
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0207
Date Prepared: 04/04/2009 0207

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0328.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **MW-3**

Lab Sample ID: 660-28587-5
Client Matrix: Water

Date Sampled: 04/02/2009 1215
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0224
Date Prepared: 04/04/2009 0224

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0329.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: RW-2

Lab Sample ID: 660-28587-6
Client Matrix: Water

Date Sampled: 04/02/2009 1325
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0241
Date Prepared: 04/04/2009 0241

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0330.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-040209

Lab Sample ID: 660-28587-7
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0258
Date Prepared: 04/04/2009 0258

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0331.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: DW-1

Lab Sample ID: 660-28587-8
Client Matrix: Water

Date Sampled: 04/02/2009 1400
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0315
Date Prepared: 04/04/2009 0315

Analysis Batch: 660-77285

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0332.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-09

Lab Sample ID: 660-28587-9
Client Matrix: Water

Date Sampled: 04/02/2009 1145
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/04/2009 0614
Date Prepared: 04/04/2009 0614

Analysis Batch: 660-77470

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0352.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **MW-22**

Lab Sample ID: 660-28587-10
Client Matrix: Water

Date Sampled: 04/02/2009 1212
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 2329
Date Prepared: 04/06/2009 2329

Analysis Batch: 660-77670

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0628.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U ~~J3~~	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-233

Lab Sample ID: 660-28587-11
Client Matrix: Water

Date Sampled: 04/02/2009 1015
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 0039
Date Prepared: 04/07/2009 0039

Analysis Batch: 660-77670

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0631.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-122

Lab Sample ID: 660-28587-12
Client Matrix: Water

Date Sampled: 04/02/2009 1017
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 0105
Date Prepared: 04/07/2009 0105

Analysis Batch: 660-77670

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0632.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-78

Lab Sample ID: 660-28587-13
Client Matrix: Water

Date Sampled: 04/02/2009 0924
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 04/07/2009 2053
Date Prepared: 04/07/2009 2053

Analysis Batch: 660-77463

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0717.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	230		4.0	8.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-9S

Lab Sample ID: 660-28587-14
Client Matrix: Water

Date Sampled: 04/02/2009 0938
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2030
Date Prepared: 04/07/2009 2030

Analysis Batch: 660-77463

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0716.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-9D

Lab Sample ID: 660-28587-15
Client Matrix: Water

Date Sampled: 04/02/2009 0857
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2117
Date Prepared: 04/07/2009 2117

Analysis Batch: 660-77463

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0718.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-25

Lab Sample ID: 660-28587-16
Client Matrix: Water

Date Sampled: 04/02/2009 1107
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/07/2009 2140
Date Prepared: 04/07/2009 2140

Analysis Batch: 660-77463

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0719.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	4.3		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: Dup-15

Lab Sample ID: 660-28587-17
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 25
Date Analyzed: 04/08/2009 1408
Date Prepared: 04/08/2009 1408

Analysis Batch: 660-77568

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0815.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	120		25	50

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-7

Lab Sample ID: 660-28587-18
Client Matrix: Water

Date Sampled: 04/02/2009 1444
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/09/2009 1755
Date Prepared: 04/09/2009 1755

Analysis Batch: 660-77669

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0925.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	63	I	50	100

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **Dup-13**

Lab Sample ID: 660-28587-19
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1817
Date Prepared: 04/09/2009 1817

Analysis Batch: 660-77669

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0926.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	410		100	200

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: RW-1

Lab Sample ID: 660-28587-20
Client Matrix: Water

Date Sampled: 04/02/2009 1203
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1235
Date Prepared: 04/08/2009 1235

Analysis Batch: 660-77568

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0811.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: FB-10

Lab Sample ID: 660-28587-21
Client Matrix: Water

Date Sampled: 04/02/2009 1115
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 2243
Date Prepared: 04/06/2009 2243

Analysis Batch: 660-77670

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0626.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-2

Lab Sample ID: 660-28587-22
Client Matrix: Water

Date Sampled: 04/02/2009 1110
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1841
Date Prepared: 04/09/2009 1841

Analysis Batch: 660-77669

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0927.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	440		100	200

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **PZ-LSAS-1**

Lab Sample ID: 660-28587-23
Client Matrix: Water

Date Sampled: 04/02/2009 1115
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 1344
Date Prepared: 04/08/2009 1344

Analysis Batch: 660-77568

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0814.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.2	I	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **PZ-LSAS-3**

Lab Sample ID: 660-28587-24
Client Matrix: Water

Date Sampled: 04/02/2009 0835
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/09/2009 1906
Date Prepared: 04/09/2009 1906

Analysis Batch: 660-77669

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0928.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	120		50	100

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-4

Lab Sample ID: 660-28587-25
Client Matrix: Water

Date Sampled: 04/02/2009 0956
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 100
Date Analyzed: 04/09/2009 1929
Date Prepared: 04/09/2009 1929

Analysis Batch: 660-77669

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD0929.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	530		100	200

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZ-LSAS-5

Lab Sample ID: 660-28587-26
Client Matrix: Water

Date Sampled: 04/02/2009 0915
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 04/13/2009 1151
Date Prepared: 04/13/2009 1151

Analysis Batch: 660-77684

Instrument ID: BVMJ GC/MS
Lab File ID: 1JD1310.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	450		50	100

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **MW-123**

Lab Sample ID: 660-28587-27
Client Matrix: Water

Date Sampled: 04/02/2009 1458
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1603
Date Prepared: 04/06/2009 1603

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0616.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-5

Lab Sample ID: 660-28587-28
Client Matrix: Water

Date Sampled: 04/02/2009 1346
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1621
Date Prepared: 04/06/2009 1621

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0617.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **MW-6**

Lab Sample ID: 660-28587-29
Client Matrix: Water

Date Sampled: 04/02/2009 1454
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1638
Date Prepared: 04/06/2009 1638

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0618.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **Dup-14**

Lab Sample ID: 660-28587-30
Client Matrix: Water

Date Sampled: 04/02/2009 0000
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 250
Date Analyzed: 04/08/2009 0941
Date Prepared: 04/08/2009 0941

Analysis Batch: 660-77439

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0733.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	270	I	250	500

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **1201 Tallevast Rd**

Lab Sample ID: 660-28587-31
Client Matrix: Water

Date Sampled: 04/02/2009 1100
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0707
Date Prepared: 04/08/2009 0707

Analysis Batch: 660-77439

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0724.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-197

Lab Sample ID: 660-28587-32
Client Matrix: Water

Date Sampled: 04/02/2009 0955
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1729
Date Prepared: 04/06/2009 1729

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0621.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **MW-196**

Lab Sample ID: 660-28587-33
Client Matrix: Water

Date Sampled: 04/02/2009 0851
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1747
Date Prepared: 04/06/2009 1747

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0622.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **1107 Tallevast RD**

Lab Sample ID: 660-28587-34
Client Matrix: Water

Date Sampled: 04/02/2009 1140
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1804
Date Prepared: 04/06/2009 1804

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0623.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: **7561/7571 15th St E**

Lab Sample ID: 660-28587-35
Client Matrix: Water

Date Sampled: 04/02/2009 1030
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/06/2009 1821
Date Prepared: 04/06/2009 1821

Analysis Batch: 660-77343

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0624.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: MW-84

Lab Sample ID: 660-28587-36
Client Matrix: Water

Date Sampled: 04/02/2009 1609
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/08/2009 0833
Date Prepared: 04/08/2009 0833

Analysis Batch: 660-77439

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.7	I	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28587-1
Sdg Number: 660-28587

Client Sample ID: PZLSAS-6

Lab Sample ID: 660-28587-38
Client Matrix: Water

Date Sampled: 04/02/2009 1545
Date Received: 04/02/2009 1845

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 250
Date Analyzed: 04/08/2009 0907
Date Prepared: 04/08/2009 0907

Analysis Batch: 660-77439

Instrument ID: BVMH GC/MS
Lab File ID: 2HD0731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	370	I	250	500

Serial Number 12260

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: Tallevast - Annual	PROJECT NO.: B003855.0026.00002	PROJECT LOCATION (STATE): FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: Arcadis	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk. Dr. #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 4

STANDARD REPORT DELIVERY (10)

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260 Sim	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1020	MW-4	G	X							4	
4/1/09	1655	MW-7S									4	
4/1/09	1640	MW-7D									4	
4/2/09	1055	FB-11									4	
	1215	MW-3									4	
	1325	RW-2									4	
	—	FB-040209									4	
	1400	DW-1									3	
	1400	DW-1 MS									3	
	1400	DW-1 MSD									3	
	1145	FB-09									4	
V	1212	MW-22	V	V							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE) Carol McMulty	DATE 4/2/09	TIME 1845	RECEIVED BY: (SIGNATURE)	DATE	TIME

8/6/2009

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845	YES ( ) NO ( )		60-28587	1.9°C, 2.1°C, 2.4°C, 2.7°C	CU-07

TAL8240-660 (1207)

Serial Number 12262

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAlkvast - Annual	B003855.0220.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
KATHY THALMAN	813-903-3138	813-903-3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Pk. DR. #100, TAMPA, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 4

STANDARD REPORT DELIVERY (X)

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260 B, 8260 SIM	PRESERVATIVE: HCL	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1015	MW-233	G	X						4	
	1017	MW-122								4	
	0924	MW-78								4	
	0938	MW-9S								4	
	0857	MW-9D								4	
	1107	MW-25								4	
	—	DUP-15								4	
	1444	PZ-LSAS-7								4	
	—	DUP-13								4	
	1203	RW-1								4	
	1115	FB-10								4	
↓	1110	PZ-LSAS-2	↓	↓						4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Carol McNulty	4/2/09	1845			

8/7/2009

LABORATORY USE ONLY

CU-07

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES / NO	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845	YES ( ) NO ( )		660-	1.9°C, 2.1°C, 2.4°C, 2.7°C	

TAL8240-660 (1207)

Page 185 of 188

R625-EDC-001214-0

Serial Number 12221

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
Tallevast - Annual	B0038055.0020.00002	FL	3	4
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX		
KATHY THALMAN	813-903-3138	813-903-3157		
CLIENT NAME	CLIENT E-MAIL			
ARCADIS	kathy.thalman@arcadis-us.com			
CLIENT ADDRESS				
3350 Buschwood Pk. Dr. #100, TAMPA, FL 33618				
COMPANY CONTRACTING THIS WORK (if applicable)				

STANDARD REPORT DELIVERY ☒
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260 B	8260 SIM	HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1115	PZ-LSAS-1	G	X							4	
	835	PZ-LSAS-3									4	
	0956	PZ-LSAS-4									4	
	0945	PZ-LSAS-5									3	
	1458	MW-123									4	
	1458	MW-123 MS/MSD									4	
	1346	MW-5									4	
	1454	MW-6									4	
	—	DUP-14									4	
	1100	1201 Tallevast Rd									4	
	0955	MW-197									4	
↓	0851	MW-196	↓	↓							4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845			660-	1.9°C, 2.1°C, 2.4°C, 2.7°C	CW-07

TAL8240-660 (1207)

8860 09

Page 186 of 188

R625-EDC-001214-0

Serial Number 12261

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Annual Sampling

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - Annual	B0058055.0090.0002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: KATHY THALMAN	CLIENT PHONE: 813-903-3138	CLIENT FAX: 813-903-3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Pk Dr # 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 4

STANDARD REPORT DELIVERY ⊗
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B 8260 Sim	PRESERVATIVE: HCL	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/2/09	1140	1107 Tallevast Road	G	X						4	
	1030	7561/7571 15th St. E								4	
	1609	MW-84								4	
	1609	MW-84 MS								4	
	1609	MW-84 MSD								4	
4-2-09	1445	MW-11 * CW 4-2-09								4	* Rec'd sample not on COC written in by CLOG 4-2-09
	1545	PZLSAS-6 * CW 4-2-09								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/2/09	1845			
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE) Carol McNulty	DATE 4/2/09	TIME 1845	RECEIVED BY: (SIGNATURE)	DATE	TIME

CW-07

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4-2-09	1845			660	1.9°C, 2.1°C, 2.4°C, 2.7°C	

TAL8240-660 (1207)

8260-0091
Page 187 of 188
R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles and Metals Analyses

SDG# 660-28745

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10079R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28745 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-216 (Annual)	660-28745-1	WATER	4/13/2009		X				
MW-238 (Annual)	660-28745-10	WATER	4/14/2009		X				
MW-236 (Annual)	660-28745-11	WATER	4/14/2009		X				
MW-237 (Annual)	660-28745-12	WATER	4/14/2009		X				
Dup-16 (Annual)	660-28745-13	WATER	4/13/2009	MW-249 (Annual)	X				
Trip Blank (Annual)	660-28745-14	WATER	4/13/2009		X				
MW-217 (Annual)	660-28745-2	WATER	4/13/2009		X				
MW-215 (Annual)	660-28745-3	WATER	4/13/2009		X				
MW-214 (Annual)	660-28745-4	WATER	4/13/2009		X			X	
MW-213 (Annual)	660-28745-5	WATER	4/13/2009		X			X	
MW-235 (Annual)	660-28745-6	WATER	4/13/2009		X				
MW-234 (Annual)	660-28745-7	WATER	4/13/2009		X			X	
MW-249 (Annual)	660-28745-8	WATER	4/13/2009		X				
2411 Tallevast Rd (Annual)	660-28745-9	WATER	4/13/2009		X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
2411 Tallevast Rd (Annual)	CCV %D	1,1,2,2,-Tetrachloroethane	22.4%
		1,2-Dibromo-3-chloropropane	26.8%
		1,2,3-Trichlorobenzene	41.4%
		1,2,4-Trichlorobenzene	26.6%
		1,2,3-Trichloropropane	23.4%
		2,2-Dichloropropane	22.2%
		Bromobenzene	36.1%
		Bromomethane	-57.3%
		Bromoform	35.7%
		Dichlorodifluoromethane	-34.3%
		Naphthalene	22.3%
		Tetrachloroethene	-21.4%
		trans-1,3-Dichloropropene	23.0%
		Styrene	-22.1%
MW-216 (Annual) MW-238 (Annual) MW-236 (Annual) MW-237 (Annual) Dup-16 (Annual) Trip Blank (Annual) MW-217 (Annual) MW-215 (Annual) MW-214 (Annual) MW-213 (Annual) MW-235 (Annual) MW-234 (Annual) MW-249 (Annual)	CCV %D	2,2-Dichloropropane	24.1%
		Bromomethane	-50.6%
		Dichlorodifluoromethane	-31.0%
		Tetrachloroethene	-31.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on a sample location associated with this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-249 (Annual)/Dup-16 (Annual)	All Compounds	ND	ND	AC

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) SW-846 Method 6010B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

    U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

    B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

    E The reported value is estimated due to the presence of interference.

    N Spiked sample recovery is not within control limits.

    * Duplicate analysis is not within control limits.

- Validation Qualifiers

    J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

    UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

    UB Analyte considered non-detect at the listed value due to associated blank contamination.

    R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the instrument detection limit (IDL) or method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

3.2 CRDL Check Standard

The CRDL check standard serves to verify the linearity of calibration of the analysis at the CRDL. The CRDL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the CRDL standard analysis are presented below in the CRDL standards evaluation table.

All CRDL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

A MS/MSD analysis was not performed on sample location within this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

A laboratory duplicate was not performed on a sample location within this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate analysis was not performed on a sample location within this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the

same sample analyzed with a five-fold dilution.

A serial dilution was not performed on sample location within this SDG.

8. Furnace Analysis QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. General Assessment

The calculated %D between the total and the dissolved sample results were within the control limit.

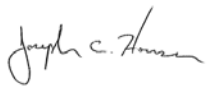
11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6000	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks					X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R					X
Matrix Spike Duplicate (MSD) %R					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
ICP Serial Dilution					X
Reporting Limit Verification		X		X	
Raw Data		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
CRDL Standard		X		X	
ICP Interference Check		X		X	
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 27, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 4, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-216

Lab Sample ID: 660-28745-1
Client Matrix: Water

Date Sampled: 04/13/2009 1015
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1539
Date Prepared: 04/15/2009 1539

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1524.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-216

Lab Sample ID: 660-28745-1
Client Matrix: Water

Date Sampled: 04/13/2009 1015
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1539
Date Prepared: 04/15/2009 1539

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1524.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	116	70 - 130
Toluene-d8 (Surr)	89	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-217

Lab Sample ID: 660-28745-2
Client Matrix: Water

Date Sampled: 04/13/2009 1016
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1556
Date Prepared: 04/15/2009 1556

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1525.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-217

Lab Sample ID: 660-28745-2
Client Matrix: Water

Date Sampled: 04/13/2009 1016
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1556
Date Prepared: 04/15/2009 1556

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1525.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	116	70 - 130
Toluene-d8 (Surr)	87	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-215

Lab Sample ID: 660-28745-3
Client Matrix: Water

Date Sampled: 04/13/2009 1112
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1613
Date Prepared: 04/15/2009 1613

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1526.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-215

Lab Sample ID: 660-28745-3
Client Matrix: Water

Date Sampled: 04/13/2009 1112
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1613
Date Prepared: 04/15/2009 1613

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1526.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	116	70 - 130
Toluene-d8 (Surr)	111	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-214

Lab Sample ID: 660-28745-4
Client Matrix: Water

Date Sampled: 04/13/2009 1118
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1631
Date Prepared: 04/15/2009 1631

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1527.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-214

Lab Sample ID: 660-28745-4
Client Matrix: Water

Date Sampled: 04/13/2009 1118
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1631
Date Prepared: 04/15/2009 1631

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1527.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	89	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-213

Lab Sample ID: 660-28745-5
Client Matrix: Water

Date Sampled: 04/13/2009 1213
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1648
Date Prepared: 04/15/2009 1648

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1528.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-213

Lab Sample ID: 660-28745-5
Client Matrix: Water

Date Sampled: 04/13/2009 1213
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1648
Date Prepared: 04/15/2009 1648

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1528.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	75	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	88	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-235

Lab Sample ID: 660-28745-6
Client Matrix: Water

Date Sampled: 04/13/2009 1445
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1705
Date Prepared: 04/15/2009 1705

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1529.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-235

Lab Sample ID: 660-28745-6
Client Matrix: Water

Date Sampled: 04/13/2009 1445
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1705
Date Prepared: 04/15/2009 1705

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1529.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	115	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-234

Lab Sample ID: 660-28745-7
Client Matrix: Water

Date Sampled: 04/13/2009 1457
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1722
Date Prepared: 04/15/2009 1722

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1530.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-234

Lab Sample ID: 660-28745-7
Client Matrix: Water

Date Sampled: 04/13/2009 1457
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1722
Date Prepared: 04/15/2009 1722

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1530.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	85	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	90	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-249

Lab Sample ID: 660-28745-8
Client Matrix: Water

Date Sampled: 04/13/2009 1611
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1906
Date Prepared: 04/15/2009 1906

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1536.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-249

Lab Sample ID: 660-28745-8
Client Matrix: Water

Date Sampled: 04/13/2009 1611
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1906
Date Prepared: 04/15/2009 1906

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1536.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	91	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: 2411 Tallevast Rd

Lab Sample ID: 660-28745-9
Client Matrix: Water

Date Sampled: 04/13/2009 1634
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1129
Date Prepared: 04/16/2009 1129

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1614.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	1.1	J	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	6.6		0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	12		0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	12		0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: 2411 Tallevast Rd

Lab Sample ID: 660-28745-9
Client Matrix: Water

Date Sampled: 04/13/2009 1634
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1129
Date Prepared: 04/16/2009 1129

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1614.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U J	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	78	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	81	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-238

Lab Sample ID: 660-28745-10
Client Matrix: Water

Date Sampled: 04/14/2009 0938
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1757
Date Prepared: 04/15/2009 1757

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1532.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-238

Lab Sample ID: 660-28745-10
Client Matrix: Water

Date Sampled: 04/14/2009 0938
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1757
Date Prepared: 04/15/2009 1757

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1532.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	88	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-236

Lab Sample ID: 660-28745-11
Client Matrix: Water

Date Sampled: 04/14/2009 0905
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1814
Date Prepared: 04/15/2009 1814

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1533.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-236

Lab Sample ID: 660-28745-11
Client Matrix: Water

Date Sampled: 04/14/2009 0905
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1814
Date Prepared: 04/15/2009 1814

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1533.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	90	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-237

Lab Sample ID: 660-28745-12
Client Matrix: Water

Date Sampled: 04/14/2009 1009
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1831
Date Prepared: 04/15/2009 1831

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1534.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-237

Lab Sample ID: 660-28745-12
Client Matrix: Water

Date Sampled: 04/14/2009 1009
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1831
Date Prepared: 04/15/2009 1831

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1534.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	86	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	89	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: Dup-16

Lab Sample ID: 660-28745-13
Client Matrix: Water

Date Sampled: 04/14/2009 0000
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1848
Date Prepared: 04/15/2009 1848

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1535.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: Dup-16

Lab Sample ID: 660-28745-13
Client Matrix: Water

Date Sampled: 04/14/2009 0000
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1848
Date Prepared: 04/15/2009 1848

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1535.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	84	74 - 126
Dibromofluoromethane	113	70 - 130
Toluene-d8 (Surr)	85	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: Trip Blank

Lab Sample ID: 660-28745-14
Client Matrix: Water

Date Sampled: 04/13/2009 0000
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1522
Date Prepared: 04/15/2009 1522

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1523.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: Trip Blank

Lab Sample ID: 660-28745-14
Client Matrix: Water

Date Sampled: 04/13/2009 0000
Date Received: 04/14/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1522
Date Prepared: 04/15/2009 1522

Analysis Batch: 660-77773

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1523.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	90	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-216

Lab Sample ID: 660-28745-1
Client Matrix: Water

Date Sampled: 04/13/2009 1015
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1539
Date Prepared: 04/15/2009 1539

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1524.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: **MW-217**

Lab Sample ID: 660-28745-2
Client Matrix: Water

Date Sampled: 04/13/2009 1016
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1556
Date Prepared: 04/15/2009 1556

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1525.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: **MW-215**

Lab Sample ID: 660-28745-3
Client Matrix: Water

Date Sampled: 04/13/2009 1112
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1613
Date Prepared: 04/15/2009 1613

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1526.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-214

Lab Sample ID: 660-28745-4
Client Matrix: Water

Date Sampled: 04/13/2009 1118
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1631
Date Prepared: 04/15/2009 1631

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1527.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: **MW-213**

Lab Sample ID: 660-28745-5
Client Matrix: Water

Date Sampled: 04/13/2009 1213
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1648
Date Prepared: 04/15/2009 1648

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1528.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-235

Lab Sample ID: 660-28745-6
Client Matrix: Water

Date Sampled: 04/13/2009 1445
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1705
Date Prepared: 04/15/2009 1705

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1529.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-234

Lab Sample ID: 660-28745-7
Client Matrix: Water

Date Sampled: 04/13/2009 1457
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1722
Date Prepared: 04/15/2009 1722

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1530.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: **MW-249**

Lab Sample ID: 660-28745-8
Client Matrix: Water

Date Sampled: 04/13/2009 1611
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1906
Date Prepared: 04/15/2009 1906

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1536.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: **2411 Tallevast Rd**

Lab Sample ID: 660-28745-9
Client Matrix: Water

Date Sampled: 04/13/2009 1634
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1740
Date Prepared: 04/15/2009 1740

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1531.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-238

Lab Sample ID: 660-28745-10
Client Matrix: Water

Date Sampled: 04/14/2009 0938
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1757
Date Prepared: 04/15/2009 1757

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1532.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-236

Lab Sample ID: 660-28745-11
Client Matrix: Water

Date Sampled: 04/14/2009 0905
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1814
Date Prepared: 04/15/2009 1814

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1533.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-237

Lab Sample ID: 660-28745-12
Client Matrix: Water

Date Sampled: 04/14/2009 1009
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1831
Date Prepared: 04/15/2009 1831

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1534.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: Dup-16

Lab Sample ID: 660-28745-13
Client Matrix: Water

Date Sampled: 04/14/2009 0000
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1848
Date Prepared: 04/15/2009 1848

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1535.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28745-14
Client Matrix: Water

Date Sampled: 04/13/2009 0000
Date Received: 04/14/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/15/2009 1522
Date Prepared: 04/15/2009 1522

Analysis Batch: 660-77783

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1523.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-214

Lab Sample ID: 660-28745-4
Client Matrix: Water

Date Sampled: 04/13/2009 1118
Date Received: 04/14/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/15/2009 1501
Date Prepared: 04/15/2009 0748

Analysis Batch: 660-77788
Prep Batch: 660-77755

Instrument ID: TJA ICP TRACE
Lab File ID: 9D15A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	0.20		0.050	0.20
Manganese	0.0079		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/15/2009 1507
Date Prepared: 04/15/2009 0748

Analysis Batch: 660-77788
Prep Batch: 660-77755

Instrument ID: TJA ICP TRACE
Lab File ID: 9D15A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	0.12	I	0.050	0.20
Manganese, Dissolved	0.0065		0.0010	0.0040

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-213

Lab Sample ID: 660-28745-5
Client Matrix: Water

Date Sampled: 04/13/2009 1213
Date Received: 04/14/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/15/2009 1512
Date Prepared: 04/15/2009 0748

Analysis Batch: 660-77788
Prep Batch: 660-77755

Instrument ID: TJA ICP TRACE
Lab File ID: 9D15A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	6.7		0.050	0.20
Manganese	0.026		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/15/2009 1518
Date Prepared: 04/15/2009 0748

Analysis Batch: 660-77788
Prep Batch: 660-77755

Instrument ID: TJA ICP TRACE
Lab File ID: 9D15A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	6.7		0.050	0.20
Manganese, Dissolved	0.027		0.0010	0.0040

Analytical Data

Client: ARCADIS

Job Number: 660-28745-1
Sdg Number: 660-28745

Client Sample ID: MW-234

Lab Sample ID: 660-28745-7
Client Matrix: Water

Date Sampled: 04/13/2009 1457
Date Received: 04/14/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/15/2009 1524
Date Prepared: 04/15/2009 0748

Analysis Batch: 660-77788
Prep Batch: 660-77755

Instrument ID: TJA ICP TRACE
Lab File ID: 9D15A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron	3.2		0.050	0.20
Manganese	0.024		0.0010	0.0040

6010B Metals (ICP)-Dissolved

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 04/15/2009 1530
Date Prepared: 04/15/2009 0748

Analysis Batch: 660-77788
Prep Batch: 660-77755

Instrument ID: TJA ICP TRACE
Lab File ID: 9D15A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Iron, Dissolved	2.6		0.050	0.20
Manganese, Dissolved	0.027		0.0010	0.0040

Serial Number 12351

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28745
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
ABC Facility	B003805.0020	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
Ryan Suttle	Task 00001	
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	(813)903-3138	(813)932-9514
CLIENT NAME	CLIENT E-MAIL	
Arcadis	Kathy.Thalman@arcadis-us.com	

CLIENT ADDRESS: 3350 Buschwood Park Drive Ste#100 Tampa, FL 33618
COMPANY CONTRACTING THIS WORK (if applicable): Lockheed Martin

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE): AQUEOUS (WATER) X; SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT,...)

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	8260B/CSIM	6010B Dissolved Fe, Mn	6010B Total Fe, Mn	NUMBER OF CONTAINERS SUBMITTED	REMARKS
				HCl/Ice	HNO3/ICE	HNO3/ICE	PRESERVATIVE	
4/13/09	10:15	MW-216	G X	4				3 day RT TAT
4/13/09	10:16	MW-217	G X	4				
4/13/09	11:12	MW-215	G X	4				
4/13/09	11:18	MW-214	G X	4	1	1		
4/13/09	12:13	MW-213	G X	4	1	1		
4/13/09	14:45	MW-235	G X	4				
4/13/09	14:57	MW-234	G X	4	1	1		
4/13/09	16:11	MW-249	G X	4				
4/13/09	16:34	2411 Tallevast Rd	G X	4				
4/14/09	09:38	MW-238	G X	4				
4/14/09	09:05	MW-236	G X	4				
4/14/09	10:09	MW-237	G X	4				

PAGE 1 OF 2

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ⊘
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	4/10/09	1200	Ryan Suttle	4/14/09	15:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Amanda Hanson	4-14-09	1500			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	4-14-09	1500	YES ○ NO ○		6060-28745	1.9°C CU-07	

TAL8240-660 (1207)

Page 70 of 73

R625-EDC-001214-0

Serial Number 13555

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone:
Fax:

6060-28745

PROJECT REFERENCE: ~~BO~~ 21 ABC Facility	PROJECT NO.: B003805S.0020	PROJECT LOCATION (STATE): FL	
SAMPLER'S SIGNATURE: Ryan Sattle	P.O. NUMBER: Task 00001	CONTRACT NO.	
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: (813) 903-3138	CLIENT FAX: (813) 932-9514	
CLIENT NAME: Arcadis	CLIENT E-MAIL: Kathy.Thalman@arcadis-us.com		
CLIENT ADDRESS: 3350 Buschwood Park Drive Ste# 100 Tampa, FL 33618			
COMPANY CONTRACTING THIS WORK (if applicable): Lockheed Martin			

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT,...))

REQUIRED ANALYSIS: 8260B/CSTM

PRESERVATIVE: HCl / ICE

PAGE 2 OF 2

STANDARD REPORT DELIVERY ○

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ●

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/13/09	—	Dup-16	G	X				4	3 day TAT

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Ryan Sattle	4/14/09	15:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Amanda Hanson	4-14-09	1500			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 6060-28745	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	4-14-09	1500				1.9+e CU-07	

TAL8240-660 (1207)

Page 71 of 73

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28775

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10104R
Review Level: Tier III
Project: B0038055.0020.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28775 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-218 (Annual)	660-28775-1	WATER	4/15/2009		X				
MW-250 (Annual)	660-28775-2	WATER	4/15/2009		X				
MW-203 (Annual)	660-28775-3	WATER	4/15/2009		X				
2105 Tallevast Rd (Annual)	660-28775-4	WATER	4/15/2009		X				

Note:

1. Matrix spike was performed on sample location MW-218 (Annual).

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-218 (Annual) MW-250 (Annual) MW-203 (Annual) 2105 Tallevast Rd (Annual)	CCV %D	1,1,2,2,-Tetrachloroethane	22.4%
		1,2-Dibromo-3-chloropropane	26.8%
		1,2,3-Trichlorobenzene	41.4%
		1,2,4-Trichlorobenzene	26.6%
		1,2,3-Trichloropropane	23.4%
		2,2-Dichloropropane	22.2%
		Bromobenzene	36.1%
		Bromomethane	-57.3%
		Bromoform	35.7%
		Dichlorodifluoromethane	-34.3%
		Naphthalene	22.3%
		Tetrachloroethene	-21.4%
		trans-1,3-Dichloropropene	23.0%
		Styrene	-22.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS exhibited acceptable recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the

RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

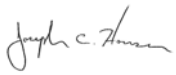
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: May 3, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 8, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: MW-218

Lab Sample ID: 660-28775-1
Client Matrix: Water

Date Sampled: 04/15/2009 1010
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1328
Date Prepared: 04/16/2009 1328

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1621.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: MW-218

Lab Sample ID: 660-28775-1
Client Matrix: Water

Date Sampled: 04/15/2009 1010
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1328
Date Prepared: 04/16/2009 1328

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1621.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	112	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: MW-250

Lab Sample ID: 660-28775-2
Client Matrix: Water

Date Sampled: 04/15/2009 1052
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1254
Date Prepared: 04/16/2009 1254

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1619.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: MW-250

Lab Sample ID: 660-28775-2
Client Matrix: Water

Date Sampled: 04/15/2009 1052
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1254
Date Prepared: 04/16/2009 1254

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1619.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	75	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	103	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: MW-203

Lab Sample ID: 660-28775-3
Client Matrix: Water

Date Sampled: 04/15/2009 1430
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1311
Date Prepared: 04/16/2009 1311

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1620.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: MW-203

Lab Sample ID: 660-28775-3
Client Matrix: Water

Date Sampled: 04/15/2009 1430
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1311
Date Prepared: 04/16/2009 1311

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1620.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U J	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U J	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	85	74 - 126
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	112	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: 2105 Tallevast Rd

Lab Sample ID: 660-28775-4
Client Matrix: Water

Date Sampled: 04/15/2009 1454
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 04/16/2009 1345
Date Prepared: 04/16/2009 1345

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1622.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
1,1-Dichloroethane	4.8		1.0	2.0
1,1-Dichloroethene	4.8		0.90	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	10
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
2-Chlorotoluene	1.3	U	1.3	2.0
2-Hexanone	8.8	U	8.8	20
4-Chlorotoluene	1.0	U	1.0	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Acetone	20	U	20	40
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U	5.0	10
Carbon disulfide	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	1.3	U	1.3	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
cis-1,2-Dichloroethene	1.3	U	1.3	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
Dibromomethane	0.82	U	0.82	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Dichlorodifluoromethane	5.0	U	5.0	10
Ethylbenzene	0.88	U	0.88	2.0
Ethylene Dibromide	1.0	U	1.0	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: 2105 Tallevast Rd

Lab Sample ID: 660-28775-4
Client Matrix: Water

Date Sampled: 04/15/2009 1454
Date Received: 04/15/2009 1700

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 04/16/2009 1345
Date Prepared: 04/16/2009 1345

Analysis Batch: 660-77859

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1622.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.38	U	0.38	2.0
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
Methylene Chloride	8.0	U	8.0	10
m-Xylene & p-Xylene	1.2	U	1.2	4.0
Naphthalene	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
N-Propylbenzene	1.2	U	1.2	2.0
o-Xylene	1.0	U	1.0	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
Styrene	2.0	U J	2.0	4.0
tert-Butylbenzene	1.7	U	1.7	2.0
Tetrachloroethene	1.0	U J	1.0	2.0
Toluene	21		1.0	2.0
trans-1,2-Dichloroethene	0.88	U	0.88	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Trichloroethene	1.0	U	1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
Vinyl chloride	1.0	U	1.0	2.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	114	70 - 130
Toluene-d8 (Surr)	90	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: **MW-218**

Lab Sample ID: 660-28775-1
Client Matrix: Water

Date Sampled: 04/15/2009 1010
Date Received: 04/15/2009 1700

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1236
Date Prepared: 04/16/2009 1236

Analysis Batch: 660-77858

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1618.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: MW-250

Lab Sample ID: 660-28775-2
Client Matrix: Water

Date Sampled: 04/15/2009 1052
Date Received: 04/15/2009 1700

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1254
Date Prepared: 04/16/2009 1254

Analysis Batch: 660-77858

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1619.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	4.1		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: **MW-203**

Lab Sample ID: 660-28775-3
Client Matrix: Water

Date Sampled: 04/15/2009 1430
Date Received: 04/15/2009 1700

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 04/16/2009 1311
Date Prepared: 04/16/2009 1311

Analysis Batch: 660-77858

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1620.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28775-1
Sdg Number: 660-28775

Client Sample ID: **2105 Tallevast Rd**

Lab Sample ID: 660-28775-4
Client Matrix: Water

Date Sampled: 04/15/2009 1454
Date Received: 04/15/2009 1700

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 04/16/2009 1345
Date Prepared: 04/16/2009 1345

Analysis Batch: 660-77858

Instrument ID: BVMH GC/MS
Lab File ID: 1HD1622.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	95		2.0	4.0

Serial Number 06208

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28775
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TALLEVAST - Annual	80038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813-903-3138	813-903-3159
CLIENT NAME	CLIENT E-MAIL	
Arcadis	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Park Dr #104, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE 24hr

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B + 8260 Short	PRESERVATIVE: HCl	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/15/09	1010	MW-218	G	X						4	
	1052	MW-250								4	
	1430	MW-203								4	
	1454	2105 Tallevast rd								4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/15/09	1700			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				4/15/09	1700			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 6060 28775	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	4/15/09	1700				2.1°C	cw-07

TAL8240-660 (1207)

Page 30 of 31

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles and Metals Analyses

SDG# 660-28307

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #9996R
Review Level: Tier III
Project: B0038055.0015.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28307 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
Dup-01 (IRAP)	660-28307-1	WATER	3/20/2009	EW-109 (IRAP)	X			X	
MW-35 (IRAP)	660-28307-2	WATER	3/20/2009		X				
EW-103 (IRAP)	660-28307-3	WATER	3/20/2009		X			X	
EW-108 (IRAP)	660-28307-4	WATER	3/20/2009		X			X	
EW-109 (IRAP)	660-28307-5	WATER	3/20/2009		X			X	
EW-110 (IRAP)	660-28307-6	WATER	3/20/2009		X			X	
Trip Blank (IRAP)	660-28307-7	WATER	3/20/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location EW-103 (IRAP).
2. The Bromide analysis that was performed in this SDG was not validated.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-35 (IRAP) EW-103 (IRAP) Trip Blank (IRAP)	CCV %D	Bromomethane	-24.3%
		Chloroethane	20.9%
Dup-01 (IRAP) EW-108 (IRAP) EW-109 (IRAP) EW-110 (IRAP)	CCV %D	Bromomethane	-51.1%
		Chloroethane	22.2%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EW-109 (IRAP)/Dup-01 (IRAP)	All Compounds	ND	ND	AC

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) SW-846 Method 6010B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

    U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

    B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

    E The reported value is estimated due to the presence of interference.

    N Spiked sample recovery is not within control limits.

    * Duplicate analysis is not within control limits.

- Validation Qualifiers

    J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

    UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

    UB Analyte considered non-detect at the listed value due to associated blank contamination.

    R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the instrument detection limit (IDL) or method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

3.2 CRDL Check Standard

The CRDL check standard serves to verify the linearity of calibration of the analysis at the CRDL. The CRDL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the CRDL standard analysis are presented below in the CRDL standards evaluation table.

All CRDL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS/MSD performed on sample location EW-103 (IRAP) exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
EW-109 (IRAP)/Dup-01(IRAP)	Aluminum	140 I	140 I	AC
	Iron	4300	4600	6.7%
	Nickel	2.9 I	2.3 I	AC
	Zinc	9.4 I	9.8 I	AC

ND = Not detected
AC = Acceptable
NC = Non-compliant

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

The serial dilution performed on sample location EW-103 (IRAP) exhibited %D within the control limit.

8. Furnace Analysis QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

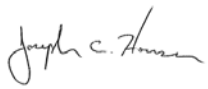
10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6000	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks					X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
ICP Serial Dilution		X		X	
Reporting Limit Verification		X		X	
Raw Data		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
CRDL Standard		X		X	
ICP Interference Check		X		X	
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 14, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 4, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: DUP-01

Lab Sample ID: 660-28307-1
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1239
Date Prepared: 03/23/2009 1239

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: DUP-01

Lab Sample ID: 660-28307-1
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1239
Date Prepared: 03/23/2009 1239

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	91	77 - 122
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	111	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: MW-35

Lab Sample ID: 660-28307-2
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1738
Date Prepared: 03/22/2009 1738

Analysis Batch: 660-76603

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2226.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	2.4		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	10		0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: MW-35

Lab Sample ID: 660-28307-2
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1738
Date Prepared: 03/22/2009 1738

Analysis Batch: 660-76603

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2226.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	33		0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	25		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	115	77 - 122
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	109	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-103

Lab Sample ID: 660-28307-3
Client Matrix: Water

Date Sampled: 03/20/2009 1330
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1755
Date Prepared: 03/22/2009 1755

Analysis Batch: 660-76603

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2227.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	27		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	9.2		0.45	1.0
cis-1,2-Dichloroethene	7.7		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-103

Lab Sample ID: 660-28307-3
Client Matrix: Water

Date Sampled: 03/20/2009 1330
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1755
Date Prepared: 03/22/2009 1755

Analysis Batch: 660-76603

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2227.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	2.5		0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	71		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	95	77 - 122
4-Bromofluorobenzene	94	74 - 126
Dibromofluoromethane	109	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-108

Lab Sample ID: 660-28307-4
Client Matrix: Water

Date Sampled: 03/20/2009 0950
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1204
Date Prepared: 03/23/2009 1204

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Chlorobromomethane	29	U	29	50
Dichlorobromomethane	18	U	18	50
Bromoform	29	U	29	50
Bromomethane	120	U	120	250
n-Butylbenzene	34	U	34	50
sec-Butylbenzene	32	U	32	50
tert-Butylbenzene	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
2-Chlorotoluene	32	U	32	50
4-Chlorotoluene	26	U	26	50
Chlorodibromomethane	17	U	17	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
Ethylene Dibromide	25	U	25	50
Dibromomethane	20	U	20	50
1,2-Dichlorobenzene	22	U	22	50
1,3-Dichlorobenzene	32	U	32	50
1,4-Dichlorobenzene	26	U	26	50
Dichlorodifluoromethane	120	U	120	250
1,1-Dichloroethane	26	U	26	50
1,2-Dichloroethane	28	U	28	50
1,1,1,2-Tetrachloroethane	32	U	32	50
1,1-Dichloroethene	22	U	22	50
cis-1,2-Dichloroethene	340		32	50
trans-1,2-Dichloroethene	22	U	22	50
1,2-Dichloropropane	26	U	26	50
1,3-Dichloropropane	20	U	20	50
2,2-Dichloropropane	18	U	18	50
1,1-Dichloropropene	16	U	16	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Ethylbenzene	22	U	22	50
Hexachlorobutadiene	20	U	20	50
Isopropylbenzene	9.5	U	9.5	50
4-Isopropyltoluene	34	U	34	50
Methylene Chloride	200	U	200	250
Naphthalene	120	U	120	250
N-Propylbenzene	30	U	30	50
Styrene	49	U	49	100

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-108

Lab Sample ID: 660-28307-4
Client Matrix: Water

Date Sampled: 03/20/2009 0950
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1204
Date Prepared: 03/23/2009 1204

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
Tetrachloroethene	25	U	25	50
Toluene	26	U	26	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,4-Trichlorobenzene	29	U	29	50
1,1,1-Trichloroethane	23	U	23	50
1,1,2-Trichloroethane	24	U	24	50
Trichloroethene	25	U	25	50
Trichlorofluoromethane	120	U	120	250
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trimethylbenzene	43	U	43	50
1,3,5-Trimethylbenzene	27	U	27	50
Vinyl chloride	3600		25	50
o-Xylene	25	U	25	50
Acetone	500	U	500	1000
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Carbon disulfide	42	U	42	50
2-Hexanone	220	U	220	500
Methyl tert-butyl ether	22	U	22	50
m-Xylene & p-Xylene	30	U	30	100

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	96	74 - 126
Dibromofluoromethane	111	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-109

Lab Sample ID: 660-28307-5
Client Matrix: Water

Date Sampled: 03/20/2009 1217
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1405
Date Prepared: 03/23/2009 1405

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-109

Lab Sample ID: 660-28307-5
Client Matrix: Water

Date Sampled: 03/20/2009 1217
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1405
Date Prepared: 03/23/2009 1405

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	98	77 - 122
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	110	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-110

Lab Sample ID: 660-28307-6
Client Matrix: Water

Date Sampled: 03/20/2009 1109
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1422
Date Prepared: 03/23/2009 1422

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	1.5		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	3.2		0.45	1.0
cis-1,2-Dichloroethene	2.0		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-110

Lab Sample ID: 660-28307-6
Client Matrix: Water

Date Sampled: 03/20/2009 1109
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1422
Date Prepared: 03/23/2009 1422

Analysis Batch: 660-76622

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	5.6		0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	1.2		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	115	77 - 122
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	111	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: Trip Blank

Lab Sample ID: 660-28307-7
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1520
Date Prepared: 03/22/2009 1520

Analysis Batch: 660-76603

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2218.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: Trip Blank

Lab Sample ID: 660-28307-7
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/21/2009 1900

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1520
Date Prepared: 03/22/2009 1520

Analysis Batch: 660-76603

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2218.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	97	77 - 122
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	108	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: DUP-01

Lab Sample ID: 660-28307-1
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/21/2009 1900

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1239
Date Prepared: 03/23/2009 1239

Analysis Batch: 660-76623

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2316.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: MW-35

Lab Sample ID: 660-28307-2
Client Matrix: Water

Date Sampled: 03/20/2009 1220
Date Received: 03/21/2009 1900

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1738
Date Prepared: 03/22/2009 1738

Analysis Batch: 660-76604

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2226.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-103

Lab Sample ID: 660-28307-3
Client Matrix: Water

Date Sampled: 03/20/2009 1330
Date Received: 03/21/2009 1900

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1755
Date Prepared: 03/22/2009 1755

Analysis Batch: 660-76604

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2227.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-108

Lab Sample ID: 660-28307-4
Client Matrix: Water

Date Sampled: 03/20/2009 0950
Date Received: 03/21/2009 1900

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1204
Date Prepared: 03/23/2009 1204

Analysis Batch: 660-76623

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	91		27	50

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-109

Lab Sample ID: 660-28307-5
Client Matrix: Water

Date Sampled: 03/20/2009 1217
Date Received: 03/21/2009 1900

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/23/2009 1405
Date Prepared: 03/23/2009 1405

Analysis Batch: 660-76623

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-110

Lab Sample ID: 660-28307-6
Client Matrix: Water

Date Sampled: 03/20/2009 1109
Date Received: 03/21/2009 1900

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1846
Date Prepared: 03/22/2009 1846

Analysis Batch: 660-76604

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2230.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28307-7
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/21/2009 1900

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/22/2009 1520
Date Prepared: 03/22/2009 1520

Analysis Batch: 660-76604

Instrument ID: BVMH GC/MS
Lab File ID: 1HC2218.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: DUP-01

Lab Sample ID: 660-28307-1
Client Matrix: Water

Date Sampled: 03/20/2009 0000
Date Received: 03/21/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 0959
Date Prepared: 03/23/2009 0738

Analysis Batch: 660-76698
Prep Batch: 660-76605

Instrument ID: TJA ICP
Lab File ID: 9C24B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.14	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	4.6		0.050	0.20
Nickel	0.0023	I	0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.0098	I	0.0050	0.020

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-103

Lab Sample ID: 660-28307-3
Client Matrix: Water

Date Sampled: 03/20/2009 1330
Date Received: 03/21/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 0941
Date Prepared: 03/23/2009 0738

Analysis Batch: 660-76698
Prep Batch: 660-76605

Instrument ID: TJA ICP
Lab File ID: 9C24B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.078	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	13	~~J3~~	0.050	0.20
Nickel	0.0020	U	0.0020	0.0080
Lead	0.0034	I	0.0020	0.010
Zinc	0.0057	I	0.0050	0.020

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-108

Lab Sample ID: 660-28307-4
Client Matrix: Water

Date Sampled: 03/20/2009 0950
Date Received: 03/21/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1004
Date Prepared: 03/23/2009 0738

Analysis Batch: 660-76698
Prep Batch: 660-76605

Instrument ID: TJA ICP
Lab File ID: 9C24B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.26		0.050	0.20
Nickel	0.0021	I	0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.011	I	0.0050	0.020

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-109

Lab Sample ID: 660-28307-5
Client Matrix: Water

Date Sampled: 03/20/2009 1217
Date Received: 03/21/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1009
Date Prepared: 03/23/2009 0738

Analysis Batch: 660-76698
Prep Batch: 660-76605

Instrument ID: TJA ICP
Lab File ID: 9C24B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.14	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	4.3		0.050	0.20
Nickel	0.0029	I	0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.0094	I	0.0050	0.020

Analytical Data

Client: ARCADIS

Job Number: 660-28307-1
Sdg Number: 660-28307

Client Sample ID: EW-110

Lab Sample ID: 660-28307-6
Client Matrix: Water

Date Sampled: 03/20/2009 1109
Date Received: 03/21/2009 1900

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1023
Date Prepared: 03/23/2009 0738

Analysis Batch: 660-76698
Prep Batch: 660-76605

Instrument ID: TJA ICP
Lab File ID: 9C24B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.31		0.050	0.20
Arsenic	0.010		0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	90		0.050	0.20
Nickel	0.0052	I	0.0020	0.0080
Lead	0.014		0.0020	0.010
Zinc	0.0050	U	0.0050	0.020

Serial Number 06423

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring / Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 660-28307
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP / Annual	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT,...)

REQUIRED ANALYSIS: IRAP; Annual

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMP (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	8260B 8260B-SIM HCl	300.0 28D None	6010B HNO3	8260B 8260B-SIM HCl	REMARKS
3/20/09	—	DUP-01	G	X				4	1	1	—	
	1220	MW-35						4	1	(?)	—	
	1645	MW-95						—	—	—	1	All vials broken NCF 3-23-09
	1330	EW-103						4	1	1	—	
	0950	EW-108						3 4	1	1	—	
	1217	EW-109						4	1	1	—	
	1109	EW-110						4	1	1	—	
	1330	EW-103 MS/MSD						4	1	1	—	

PRESERVATIVE

PAGE 1 OF 1

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 5

NUMBER OF CONTAINERS SUBMITTED

REMARKS

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Kevin Dash	3/20/09	1900			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3-2009	1900			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-20-09	1900	YES ○ NO ○		660-28307	2.5°C Cw 07	

TAL8240-660 (1207)

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles and Metals Analyses

SDG# 660-28361-1

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10012R
Review Level: Tier III
Project: B0038055.0015.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28361-1 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-91 (IRAP)	660-28361-1	WATER	3/23/2009		X				
MW-69 (IRAP)	660-28361-10	WATER	3/23/2009		X				
MW-85 (IRAP)	660-28361-11	WATER	3/23/2009		X				
MW-100 (IRAP)	660-28361-12	WATER	3/23/2009		X				
MW-158 (IRAP)	660-28361-13	WATER	3/23/2009		X				
MW-239 (IRAP)	660-28361-14	WATER	3/23/2009		X				
MW-44 (IRAP)	660-28361-15	WATER	3/23/2009		X				
MW-71 (IRAP)	660-28361-16	WATER	3/23/2009		X				
MW-98 (IRAP)	660-28361-17	WATER	3/23/2009		X				
MW-43 (IRAP)	660-28361-18	WATER	3/23/2009		X				
MW-57 (IRAP)	660-28361-19	WATER	3/23/2009		X				
MW-72 (IRAP)	660-28361-2	WATER	3/23/2009		X				
MW-32 (IRAP)	660-28361-20	WATER	3/23/2009		X				
MW-33 (IRAP)	660-28361-21	WATER	3/23/2009		X				
Trip Blank (IRAP)	660-28361-22	WATER	3/23/2009		X				
EW-104 (IRAP)	660-28361-23	WATER	3/23/2009		X			X	
MW-80 (IRAP)	660-28361-3	WATER	3/23/2009		X				
Dup-02 (IRAP)	660-28361-4	WATER	3/23/2009	MW-80 (IRAP)	X				
EB-01 (IRAP)	660-28361-5	WATER	3/23/2009		X			X	
MW-47 (IRAP)	660-28361-7	WATER	3/23/2009		X				
MW-63 (IRAP)	660-28361-8	WATER	3/23/2009		X				
MW-68 (IRAP)	660-28361-9	WATER	3/23/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample locations MW-72 (IRAP) and MW-32 (IRAP).
2. The Bromide and Sulfate analysis that was performed in this SDG was not validated.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-91 (IRAP) MW-63 (IRAP) MW-68 (IRAP) MW-69 (IRAP) MW-158 (IRAP)	CCV %D	Bromomethane	62.5%
		Chloroethane	35.0%
MW-72 (IRAP) MW-80 (IRAP) Dup-02 (IRAP) EB-01 (IRAP) MW-47 (IRAP) MW-85 (IRAP) MW-100 (IRAP) MW-239 (IRAP) MW-44 (IRAP) MW-71 (IRAP) MW-98 (IRAP) Trip Blank (IRAP)	CCV %D	1,2-Dibromo-3-chloropropane	-24.2%
		Chloroethane	25.1%
		Naphthalene	-20.9%
MW-43 (IRAP) MW-57 (IRAP) MW-32 (IRAP) EW-104 (IRAP)	CCV %D	1,1-Dichloropropene	-22.7%
		1,2,4-Trichlorobenzene	-24.0%
		2,2-Dichloropropane	-26.0%
		2-Hexanone	22.9%
		4-Methyl-2-pentanone	21.4%
		Carbon tetrachloride	-25.2%
		Chlorobromomethane	-22.9%
		Trichloroethene	-25.5%
MW-33 (IRAP)	CCV %D	Chlorobromomethane	-20.9%
		tert-Butylbenzene	25.1%
		Trichloroethene	-21.2%
		Trichlorofluoromethane	60.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-80 (IRAP)/Dup-02 (IRAP)	1,1-Dichloroethane	18	16	11.7%
	1,1-Dichloroethene	210	200	4.8%
	Chlorobenzene	4.7	4.9	AC
	cis-1,2-Dichloroethene	7.1	7	1.4%
	Tetrachloroethene	5.8	6.3	AC
	Trichloroethene	29	30	3.3%
	Vinyl chloride	1.2 I	1.2 I	AC
	1,4-Dioxane	110	110	0.0%

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) SW-846 Method 6010B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

    U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

    B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

    E The reported value is estimated due to the presence of interference.

    N Spiked sample recovery is not within control limits.

    * Duplicate analysis is not within control limits.

- Validation Qualifiers

    J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

    UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

    UB Analyte considered non-detect at the listed value due to associated blank contamination.

    R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the instrument detection limit (IDL) or method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

3.2 CRDL Check Standard

The CRDL check standard serves to verify the linearity of calibration of the analysis at the CRDL. The CRDL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the CRDL standard analysis are presented below in the CRDL standards evaluation table.

All CRDL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

A MS/MSD analysis was not performed on sample location within this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

A laboratory duplicate was not performed on a sample location within this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate analysis was not performed on a sample location within this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the

same sample analyzed with a five-fold dilution.

A serial dilution was not performed on sample location within this SDG.

8. Furnace Analysis QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

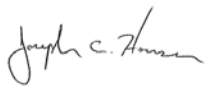
10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6000	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks					X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R					X
Matrix Spike Duplicate (MSD) %R					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
ICP Serial Dilution					X
Reporting Limit Verification		X		X	
Raw Data		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
CRDL Standard		X		X	
ICP Interference Check		X		X	
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 20, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 27, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-91

Lab Sample ID: 660-28361-1
Client Matrix: Water

Date Sampled: 03/23/2009 1015
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0243
Date Prepared: 03/25/2009 0243

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2437.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	4.9		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	7.9		0.45	1.0
cis-1,2-Dichloroethene	8.8		0.65	1.0
trans-1,2-Dichloroethene	1.2		0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-91

Lab Sample ID: 660-28361-1
Client Matrix: Water

Date Sampled: 03/23/2009 1015
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0243
Date Prepared: 03/25/2009 0243

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2437.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	25		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-72

Lab Sample ID: 660-28361-2
Client Matrix: Water

Date Sampled: 03/23/2009 1548
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1502
Date Prepared: 03/25/2009 1502

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2511.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U J	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-72

Lab Sample ID: 660-28361-2
Client Matrix: Water

Date Sampled: 03/23/2009 1548
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1502
Date Prepared: 03/25/2009 1502

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2511.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	1.1		0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	1.4		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-80

Lab Sample ID: 660-28361-3
Client Matrix: Water

Date Sampled: 03/23/2009 1702
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/25/2009 1615
Date Prepared: 03/25/2009 1615

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2514.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
tert-Butylbenzene	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	4.7		1.3	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
2-Chlorotoluene	1.3	U	1.3	2.0
4-Chlorotoluene	1.0	U	1.0	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
1,2-Dibromo-3-Chloropropane	5.0	U J	5.0	10
Ethylene Dibromide	1.0	U	1.0	2.0
Dibromomethane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
Dichlorodifluoromethane	5.0	U	5.0	10
1,1-Dichloroethane	18		1.0	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
1,1-Dichloroethene	210		0.90	2.0
cis-1,2-Dichloroethene	7.1		1.3	2.0
trans-1,2-Dichloroethene	0.88	U	0.88	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Ethylbenzene	0.88	U	0.88	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0
Isopropylbenzene	0.38	U	0.38	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Methylene Chloride	8.0	U	8.0	10
Naphthalene	5.0	U J	5.0	10
N-Propylbenzene	1.2	U	1.2	2.0
Styrene	2.0	U	2.0	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-80

Lab Sample ID: 660-28361-3
Client Matrix: Water

Date Sampled: 03/23/2009 1702
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/25/2009 1615
Date Prepared: 03/25/2009 1615

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2514.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
Tetrachloroethene	5.8		1.0	2.0
Toluene	1.0	U	1.0	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
Trichloroethene	29		1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
Vinyl chloride	1.2	I	1.0	2.0
o-Xylene	1.0	U	1.0	2.0
Acetone	20	U	20	40
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Carbon disulfide	1.7	U	1.7	2.0
2-Hexanone	8.8	U	8.8	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
m-Xylene & p-Xylene	1.2	U	1.2	4.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	102	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	99	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: DUP-02

Lab Sample ID: 660-28361-4
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/25/2009 1640
Date Prepared: 03/25/2009 1640

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2515.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
tert-Butylbenzene	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	4.9		1.3	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
2-Chlorotoluene	1.3	U	1.3	2.0
4-Chlorotoluene	1.0	U	1.0	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
1,2-Dibromo-3-Chloropropane	5.0	U J	5.0	10
Ethylene Dibromide	1.0	U	1.0	2.0
Dibromomethane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
Dichlorodifluoromethane	5.0	U	5.0	10
1,1-Dichloroethane	16		1.0	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
1,1-Dichloroethene	200		0.90	2.0
cis-1,2-Dichloroethene	7.0		1.3	2.0
trans-1,2-Dichloroethene	0.88	U	0.88	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Ethylbenzene	0.88	U	0.88	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0
Isopropylbenzene	0.38	U	0.38	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Methylene Chloride	8.0	U	8.0	10
Naphthalene	5.0	U J	5.0	10
N-Propylbenzene	1.2	U	1.2	2.0
Styrene	2.0	U	2.0	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: DUP-02

Lab Sample ID: 660-28361-4
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/25/2009 1640
Date Prepared: 03/25/2009 1640

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2515.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
Tetrachloroethene	6.3		1.0	2.0
Toluene	1.0	U	1.0	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
Trichloroethene	30		1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
Vinyl chloride	1.2	I	1.0	2.0
o-Xylene	1.0	U	1.0	2.0
Acetone	20	U	20	40
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Carbon disulfide	1.7	U	1.7	2.0
2-Hexanone	8.8	U	8.8	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
m-Xylene & p-Xylene	1.2	U	1.2	4.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	99	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EB-01

Lab Sample ID: 660-28361-5
Client Matrix: Water

Date Sampled: 03/23/2009 1425
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1437
Date Prepared: 03/25/2009 1437

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2510.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U J	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EB-01

Lab Sample ID: 660-28361-5
Client Matrix: Water

Date Sampled: 03/23/2009 1425
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1437
Date Prepared: 03/25/2009 1437

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2510.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	77 - 122
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-47

Lab Sample ID: 660-28361-7
Client Matrix: Water

Date Sampled: 03/23/2009 0952
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1728
Date Prepared: 03/25/2009 1728

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2517.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	2.4		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U J	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-47

Lab Sample ID: 660-28361-7
Client Matrix: Water

Date Sampled: 03/23/2009 0952
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1728
Date Prepared: 03/25/2009 1728

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2517.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-63

Lab Sample ID: 660-28361-8
Client Matrix: Water

Date Sampled: 03/23/2009 0945
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0534
Date Prepared: 03/25/2009 0534

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2444.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-63

Lab Sample ID: 660-28361-8
Client Matrix: Water

Date Sampled: 03/23/2009 0945
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0534
Date Prepared: 03/25/2009 0534

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2444.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-68

Lab Sample ID: 660-28361-9
Client Matrix: Water

Date Sampled: 03/23/2009 1048
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0559
Date Prepared: 03/25/2009 0559

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2445.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	1.4		0.45	1.0
cis-1,2-Dichloroethene	0.87	I	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-68**

Lab Sample ID: 660-28361-9
Client Matrix: Water

Date Sampled: 03/23/2009 1048
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0559
Date Prepared: 03/25/2009 0559

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2445.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	3.7		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-69

Lab Sample ID: 660-28361-10
Client Matrix: Water

Date Sampled: 03/23/2009 1258
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0624
Date Prepared: 03/25/2009 0624

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2446.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	1.3		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-69

Lab Sample ID: 660-28361-10
Client Matrix: Water

Date Sampled: 03/23/2009 1258
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0624
Date Prepared: 03/25/2009 0624

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2446.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	95	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-85

Lab Sample ID: 660-28361-11
Client Matrix: Water

Date Sampled: 03/23/2009 1659
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/25/2009 1752
Date Prepared: 03/25/2009 1752

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2518.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U J	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	72		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	74		4.5	10
cis-1,2-Dichloroethene	33		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U J	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-85

Lab Sample ID: 660-28361-11
Client Matrix: Water

Date Sampled: 03/23/2009 1659
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/25/2009 1752
Date Prepared: 03/25/2009 1752

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2518.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	5.0	U	5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	5.5	I	5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-100

Lab Sample ID: 660-28361-12
Client Matrix: Water

Date Sampled: 03/23/2009 1143
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1817
Date Prepared: 03/25/2009 1817

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2519.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	6.4		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	3.1		0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U J	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-100

Lab Sample ID: 660-28361-12
Client Matrix: Water

Date Sampled: 03/23/2009 1143
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1817
Date Prepared: 03/25/2009 1817

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2519.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	102	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-158

Lab Sample ID: 660-28361-13
Client Matrix: Water

Date Sampled: 03/23/2009 1642
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0738
Date Prepared: 03/25/2009 0738

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2449.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	2.8		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	3.7		0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-158

Lab Sample ID: 660-28361-13
Client Matrix: Water

Date Sampled: 03/23/2009 1642
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0738
Date Prepared: 03/25/2009 0738

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2449.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	100	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-239

Lab Sample ID: 660-28361-14
Client Matrix: Water

Date Sampled: 03/23/2009 1045
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1845
Date Prepared: 03/25/2009 1845

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2520.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.73	I	0.45	1.0
cis-1,2-Dichloroethene	3.3		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U J	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-239

Lab Sample ID: 660-28361-14
Client Matrix: Water

Date Sampled: 03/23/2009 1045
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1845
Date Prepared: 03/25/2009 1845

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2520.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	4.6		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	100	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-44

Lab Sample ID: 660-28361-15
Client Matrix: Water

Date Sampled: 03/23/2009 1550
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1909
Date Prepared: 03/25/2009 1909

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2521.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	80		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	5.0		0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U J	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-44

Lab Sample ID: 660-28361-15
Client Matrix: Water

Date Sampled: 03/23/2009 1550
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1909
Date Prepared: 03/25/2009 1909

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2521.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.58	I	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	65		0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-71

Lab Sample ID: 660-28361-16
Client Matrix: Water

Date Sampled: 03/23/2009 1342
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1933
Date Prepared: 03/25/2009 1933

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2522.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	9.4		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	1.6		0.45	1.0
cis-1,2-Dichloroethene	22		0.65	1.0
trans-1,2-Dichloroethene	1.4		0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U J	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-71

Lab Sample ID: 660-28361-16
Client Matrix: Water

Date Sampled: 03/23/2009 1342
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1933
Date Prepared: 03/25/2009 1933

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2522.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	25		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	102	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-98

Lab Sample ID: 660-28361-17
Client Matrix: Water

Date Sampled: 03/23/2009 1034
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/25/2009 1958
Date Prepared: 03/25/2009 1958

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2523.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U J	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	150		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	460		4.5	10
cis-1,2-Dichloroethene	6.5	U	6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U J	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-98

Lab Sample ID: 660-28361-17
Client Matrix: Water

Date Sampled: 03/23/2009 1034
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/25/2009 1958
Date Prepared: 03/25/2009 1958

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2523.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	16		5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	57		5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-43

Lab Sample ID: 660-28361-18
Client Matrix: Water

Date Sampled: 03/23/2009 1230
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1025
Date Prepared: 03/27/2009 1025

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2645.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U J	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U J	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	35		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	130		4.5	10
cis-1,2-Dichloroethene	34		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U J	3.6	10
1,1-Dichloropropene	3.1	U J	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-43**

Lab Sample ID: 660-28361-18
Client Matrix: Water

Date Sampled: 03/23/2009 1230
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1025
Date Prepared: 03/27/2009 1025

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2645.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	5.0	U	5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U J	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	100	J	5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	104	77 - 122
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	87	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-57

Lab Sample ID: 660-28361-19
Client Matrix: Water

Date Sampled: 03/23/2009 1635
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 03/27/2009 1049
Date Prepared: 03/27/2009 1049

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2646.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	2.5	U	2.5	5.0
Bromobenzene	2.9	U	2.9	5.0
Chlorobromomethane	2.9	U	2.9	5.0
Dichlorobromomethane	1.8	U	1.8	5.0
Bromoform	2.9	U	2.9	5.0
Bromomethane	12	U	12	25
n-Butylbenzene	3.4	U	3.4	5.0
sec-Butylbenzene	3.2	U	3.2	5.0
tert-Butylbenzene	4.2	U	4.2	5.0
Carbon tetrachloride	2.1	U	2.1	5.0
Chlorobenzene	3.2	U	3.2	5.0
Chloroethane	12	U	12	25
Chloroform	4.5	U	4.5	5.0
Chloromethane	5.0	U	5.0	20
2-Chlorotoluene	3.2	U	3.2	5.0
4-Chlorotoluene	2.6	U	2.6	5.0
Chlorodibromomethane	1.7	U	1.7	5.0
1,2-Dibromo-3-Chloropropane	12	U	12	25
Ethylene Dibromide	2.5	U	2.5	5.0
Dibromomethane	2.0	U	2.0	5.0
1,2-Dichlorobenzene	2.2	U	2.2	5.0
1,3-Dichlorobenzene	3.2	U	3.2	5.0
1,4-Dichlorobenzene	2.6	U	2.6	5.0
Dichlorodifluoromethane	12	U	12	25
1,1-Dichloroethane	2.6	U	2.6	5.0
1,2-Dichloroethane	2.8	U	2.8	5.0
1,1,1,2-Tetrachloroethane	3.2	U	3.2	5.0
1,1-Dichloroethene	2.2	U	2.2	5.0
cis-1,2-Dichloroethene	3.2	U	3.2	5.0
trans-1,2-Dichloroethene	2.2	U	2.2	5.0
1,2-Dichloropropane	2.6	U	2.6	5.0
1,3-Dichloropropane	2.0	U	2.0	5.0
2,2-Dichloropropane	1.8	U	1.8	5.0
1,1-Dichloropropene	1.6	U	1.6	5.0
cis-1,3-Dichloropropene	0.70	U	0.70	5.0
trans-1,3-Dichloropropene	0.70	U	0.70	5.0
Ethylbenzene	2.2	U	2.2	5.0
Hexachlorobutadiene	2.0	U	2.0	5.0
Isopropylbenzene	0.95	U	0.95	5.0
4-Isopropyltoluene	3.4	U	3.4	5.0
Methylene Chloride	20	U	20	25
Naphthalene	12	U	12	25
N-Propylbenzene	3.0	U	3.0	5.0
Styrene	4.9	U	4.9	10

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-57**

Lab Sample ID: 660-28361-19
Client Matrix: Water

Date Sampled: 03/23/2009 1635
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 03/27/2009 1049
Date Prepared: 03/27/2009 1049

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2646.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.75	U	0.75	5.0
Tetrachloroethene	2.5	U	2.5	5.0
Toluene	2.6	U	2.6	5.0
1,2,3-Trichlorobenzene	3.8	U	3.8	5.0
1,2,4-Trichlorobenzene	2.9	U J	2.9	5.0
1,1,1-Trichloroethane	2.3	U	2.3	5.0
1,1,2-Trichloroethane	2.4	U	2.4	5.0
Trichloroethene	2.5	U J	2.5	5.0
Trichlorofluoromethane	12	U	12	25
1,2,3-Trichloropropane	0.90	U	0.90	5.0
1,2,4-Trimethylbenzene	4.3	U	4.3	5.0
1,3,5-Trimethylbenzene	2.7	U	2.7	5.0
Vinyl chloride	2.5	U	2.5	5.0
o-Xylene	2.5	U	2.5	5.0
Acetone	1500		50	100
2-Butanone (MEK)	42	U	42	50
4-Methyl-2-pentanone (MIBK)	19	U	19	50
Carbon disulfide	4.2	U	4.2	5.0
2-Hexanone	22	U	22	50
Methyl tert-butyl ether	2.2	U	2.2	5.0
m-Xylene & p-Xylene	3.0	U	3.0	10

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	105	77 - 122
4-Bromofluorobenzene	110	74 - 126
Dibromofluoromethane	87	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-32

Lab Sample ID: 660-28361-20
Client Matrix: Water

Date Sampled: 03/23/2009 1300
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 0907
Date Prepared: 03/27/2009 0907

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2642.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U J	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	1.5		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	1.6		0.45	1.0
cis-1,2-Dichloroethene	1.6		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
1,1-Dichloropropene	0.31	U J	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-32

Lab Sample ID: 660-28361-20
Client Matrix: Water

Date Sampled: 03/23/2009 1300
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 0907
Date Prepared: 03/27/2009 0907

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2642.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	3.1		0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	5.0	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	106	77 - 122
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	84	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-33

Lab Sample ID: 660-28361-21
Client Matrix: Water

Date Sampled: 03/23/2009 1215
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/30/2009 1310
Date Prepared: 03/30/2009 1310

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2953.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U J	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	59		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	130		4.5	10
cis-1,2-Dichloroethene	73		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-33

Lab Sample ID: 660-28361-21
Client Matrix: Water

Date Sampled: 03/23/2009 1215
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/30/2009 1310
Date Prepared: 03/30/2009 1310

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2953.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	450		5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	640		5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	103	77 - 122
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	87	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: Trip Blank

Lab Sample ID: 660-28361-22
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1413
Date Prepared: 03/25/2009 1413

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2509.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U J	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28361-22
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1413
Date Prepared: 03/25/2009 1413

Analysis Batch: 660-76988

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2509.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	99	70 - 130
Toluene-d8 (Surr)	100	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EW-104

Lab Sample ID: 660-28361-23
Client Matrix: Water

Date Sampled: 03/23/2009 1530
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1206
Date Prepared: 03/27/2009 1206

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2649.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	67		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	10		4.5	10
cis-1,2-Dichloroethene	50		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EW-104

Lab Sample ID: 660-28361-23
Client Matrix: Water

Date Sampled: 03/23/2009 1530
Date Received: 03/24/2009 1420

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1206
Date Prepared: 03/27/2009 1206

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2649.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	5.0	U	5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U J	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	640	J	5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	17		5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	105	77 - 122
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	90	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-91**

Lab Sample ID: 660-28361-1
Client Matrix: Water

Date Sampled: 03/23/2009 1015
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0243
Date Prepared: 03/25/2009 0243

Analysis Batch: 660-76773

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2437.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	90		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-72**

Lab Sample ID: 660-28361-2
Client Matrix: Water

Date Sampled: 03/23/2009 1548
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1502
Date Prepared: 03/25/2009 1502

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2511.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-80**

Lab Sample ID: 660-28361-3
Client Matrix: Water

Date Sampled: 03/23/2009 1702
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/25/2009 1615
Date Prepared: 03/25/2009 1615

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2514.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	110		1.1	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: DUP-02

Lab Sample ID: 660-28361-4
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/25/2009 1640
Date Prepared: 03/25/2009 1640

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2515.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	110		1.1	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EB-01

Lab Sample ID: 660-28361-5
Client Matrix: Water

Date Sampled: 03/23/2009 1425
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1437
Date Prepared: 03/25/2009 1437

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2510.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-47**

Lab Sample ID: 660-28361-7
Client Matrix: Water

Date Sampled: 03/23/2009 0952
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 2356
Date Prepared: 03/27/2009 2356

Analysis Batch: 660-77034

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2722.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	26		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-63**

Lab Sample ID: 660-28361-8
Client Matrix: Water

Date Sampled: 03/23/2009 0945
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0534
Date Prepared: 03/25/2009 0534

Analysis Batch: 660-76773

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2444.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.2		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-68

Lab Sample ID: 660-28361-9
Client Matrix: Water

Date Sampled: 03/23/2009 1048
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0559
Date Prepared: 03/25/2009 0559

Analysis Batch: 660-76773

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2445.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	7.1		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-69

Lab Sample ID: 660-28361-10
Client Matrix: Water

Date Sampled: 03/23/2009 1258
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0624
Date Prepared: 03/25/2009 0624

Analysis Batch: 660-76773

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2446.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	14		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-85

Lab Sample ID: 660-28361-11
Client Matrix: Water

Date Sampled: 03/23/2009 1659
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/25/2009 1752
Date Prepared: 03/25/2009 1752

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2518.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	320		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-100**

Lab Sample ID: 660-28361-12
Client Matrix: Water

Date Sampled: 03/23/2009 1143
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1817
Date Prepared: 03/25/2009 1817

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2519.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	17		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-158**

Lab Sample ID: 660-28361-13
Client Matrix: Water

Date Sampled: 03/23/2009 1642
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 0738
Date Prepared: 03/25/2009 0738

Analysis Batch: 660-76773

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2449.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	67		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-239**

Lab Sample ID: 660-28361-14
Client Matrix: Water

Date Sampled: 03/23/2009 1045
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1845
Date Prepared: 03/25/2009 1845

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2520.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	8.3		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-44**

Lab Sample ID: 660-28361-15
Client Matrix: Water

Date Sampled: 03/23/2009 1550
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1909
Date Prepared: 03/25/2009 1909

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2521.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	73		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-71**

Lab Sample ID: 660-28361-16
Client Matrix: Water

Date Sampled: 03/23/2009 1342
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1933
Date Prepared: 03/25/2009 1933

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2522.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	6.6		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-98**

Lab Sample ID: 660-28361-17
Client Matrix: Water

Date Sampled: 03/23/2009 1034
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/25/2009 1958
Date Prepared: 03/25/2009 1958

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2523.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	500		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-43**

Lab Sample ID: 660-28361-18
Client Matrix: Water

Date Sampled: 03/23/2009 1230
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1025
Date Prepared: 03/27/2009 1025

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2645.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	470		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **MW-57**

Lab Sample ID: 660-28361-19
Client Matrix: Water

Date Sampled: 03/23/2009 1635
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 03/27/2009 1049
Date Prepared: 03/27/2009 1049

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2646.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	2.7	U	2.7	5.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-32

Lab Sample ID: 660-28361-20
Client Matrix: Water

Date Sampled: 03/23/2009 1300
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 0907
Date Prepared: 03/27/2009 0907

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2642.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.66	I	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: MW-33

Lab Sample ID: 660-28361-21
Client Matrix: Water

Date Sampled: 03/23/2009 1215
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/30/2009 1310
Date Prepared: 03/30/2009 1310

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2953.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	260		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28361-22
Client Matrix: Water

Date Sampled: 03/23/2009 0000
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/25/2009 1413
Date Prepared: 03/25/2009 1413

Analysis Batch: 660-76941

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2509.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EW-104

Lab Sample ID: 660-28361-23
Client Matrix: Water

Date Sampled: 03/23/2009 1530
Date Received: 03/24/2009 1420

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/30/2009 1337
Date Prepared: 03/30/2009 1337

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2954.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	6.3	I	5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EB-01

Lab Sample ID: 660-28361-5
Client Matrix: Water

Date Sampled: 03/23/2009 1425
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1449
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.050	U	0.050	0.20
Nickel	0.0021	I	0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.0056	I	0.0050	0.020

Analytical Data

Client: ARCADIS

Job Number: 660-28361-1
Sdg Number: 660-28361-1

Client Sample ID: EW-104

Lab Sample ID: 660-28361-23
Client Matrix: Water

Date Sampled: 03/23/2009 1530
Date Received: 03/24/2009 1420

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/27/2009 1455
Date Prepared: 03/26/2009 1247

Analysis Batch: 660-76896
Prep Batch: 660-76826

Instrument ID: TJA ICP TRACE
Lab File ID: 9C27A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.083	I	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	23		0.050	0.20
Nickel	0.0020	U	0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.0050	U	0.0050	0.020

Serial Number 06424

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring/Annual | Page #1 | Annual

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6660-28361
Fax:

PAGE 1 OF 2

PROJECT REFERENCE: Tallevast - IRAP/Annual	PROJECT NO.: B003805S.0020.00002	PROJECT LOCATION (STATE): FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: Kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr, Suite 100, Tampa, FL		
COMPANY CONTRACTING THIS WORK (if applicable)		

STANDARD REPORT DELIVERY
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

REQUIRED ANALYSIS: IRAP

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT....)

PRESERVATIVE: HCl | NONE | NITRIC ACID | HCl

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	G	X	8260B_SIM	8260B (Base+106 300.0_28D)	6010B	8260B_SIM	REMARKS
3/23/09	1015	MW-91	G	X	4	1	—	—	
	1548	MW-72			4	1	—	—	
	1702	MW-80			4	1	—	—	
	—	DUP-02			4	1	—	—	
	1425	EB-01			4	1	1	—	
	1615	MW-95			—	—	—	4	
	0952	MW-47			4	1	—	—	
	0945	MW-63			3	1	—	—	
	1048	MW-68			4	1	—	—	
	1258	MW-69			4	1	—	—	
	1659	MW-85			4	1	—	—	
	1143	MW-100			4	1	—	—	

NUMBER OF CONTAINERS SUBMITTED

	DATE	TIME		DATE	TIME
RELINQUISHED BY: (SIGNATURE) EMPTY CONTAINERS			RELINQUISHED BY: (SIGNATURE)	3/24/09	1305
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS			RECEIVED BY: (SIGNATURE)	3/24/09	1330
RELINQUISHED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)	3/24/09	1420
RECEIVED BY: (SIGNATURE)			RECEIVED BY: (SIGNATURE)	3/24/09	1420

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hamilton	3/24/09	1420	YES ○ NO ○		28361	2.6°, 2.9°, 3.4°	CLIENT

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12223

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring/Annual Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

COPE PAGE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT....)	NUMBER OF CONTAINERS SUBMITTED: 8260B HCl	8260B-SIM 300.0-28D (Bromide) NONE	6010B UNPRESERVED	PRESERVATIVE	REMARKS
3/23/09	1642	MW-158	G	X				4	1	—		
	1045	MW-239						4	1	—		
	1550	MW-44						4	1	—		
	1342	MW-71						4	1	—		
	1034	MW-98						4	1	—		
	1230	MW-43						4	1	—		
	1635	MW-57						4	1	—		
	1300	MW-32						4	1	—		
	1215	MW-33						4	1	—		
3-23-09	1530	EW-104						4	1	1		Added per client - NLT 3-26-09

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			[signature]	3/24/09	1305	[signature]	3/24/09	1420
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			[signature]	3/24/09	1305	Amanda Harrison	3/24/09	1420

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Harrison	3/24/09	1420	YES ○ NO ○		28361	2.6°, 2.9°, 3.4°	CL-07

TAL8240-660 (1207)

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles and Metals Analyses

SDG# 660-28391

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10022R
Review Level: Tier III
Project: B0038055.0015.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28391 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-19 (IRAP)	660-28391-1	WATER	3/24/2009		X				
EW-106 (IRAP)	660-28391-10	WATER	3/24/2009		X			X	
MW-23 (IRAP)	660-28391-11	WATER	3/24/2009		X				
Trip Blank (IRAP)	660-28391-12	WATER	3/24/2009		X				
MW-134 (IRAP)	660-28391-2	WATER	3/24/2009		X				
Dup-03 (IRAP)	660-28391-3	WATER	3/24/2009	MW-134 (IRAP)	X				
MW-41 (IRAP)	660-28391-4	WATER	3/24/2009		X				
MW-130 (IRAP)	660-28391-5	WATER	3/24/2009		X				
MW-253 (IRAP)	660-28391-6	WATER	3/24/2009		X				
EW-101 (IRAP)	660-28391-7	WATER	3/24/2009		X			X	
EW-107 (IRAP)	660-28391-8	WATER	3/24/2009		X			X	
MW-87 (IRAP)	660-28391-9	WATER	3/24/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample locations EW-107 (IRAP) and MW-19 (IRAP).
2. The Bromide analysis that was performed in this SDG was not validated.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-19 (IRAP) Trip Blank (IRAP)	CCV %D	1,2,4-Trichlorobenzene	-21.5%
		Bromomethane	65.6%
		Chloroethane	92.6%
		Dichlorodifluoromethane	26.5%
MW-134 (IRAP) Dup-03 (IRAP) MW-41 (IRAP) MW-130 (IRAP) EW-101 (IRAP)	CCV %D	1,1-Dichloropropene	-22.7%
		1,2,4-Trichlorobenzene	-24.0%
		2,2-Dichloropropane	-26.0%
		2-Hexanone	22.9%
		4-Methyl-2-pentanone	21.4%
		Carbon tetrachloride	-25.2%
		Chlorobromomethane	-22.9%
		Trichloroethene	-25.5%
EW-107 (IRAP) MW-87 (IRAP) MW-23 (IRAP)	CCV %D	2-Hexanone	21.6%
		4-Methyl-2-pentanone	22.8%
		Chlorobromomethane	-20.4%
		tert-Butylbenzene	24.8%
		Trichlorofluoromethane	23.8%
MW-253 (IRAP) EW-106 (IRAP)	CCV %D	Chlorobromomethane	-20.9%
		tert-Butylbenzene	25.1%
		Trichloroethene	-21.2%
		Trichlorofluoromethane	60.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-134 (IRAP)/Dup-03 (IRAP)	1,1-Dichloroethane	12	13	AC
	1,1-Dichloroethene	65	75	14.2%
	cis-1,2-Dichloroethene	64	68	6.0%
	Trichloroethene	420	640	41.5%
	1,4-Dioxane	70	70	0.0%

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) SW-846 Method 6010B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

    U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

    B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

    E The reported value is estimated due to the presence of interference.

    N Spiked sample recovery is not within control limits.

    * Duplicate analysis is not within control limits.

- Validation Qualifiers

    J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

    UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

    UB Analyte considered non-detect at the listed value due to associated blank contamination.

    R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the instrument detection limit (IDL) or method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the analytes listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
EW-107 (IRAP) EW-106 (IRAP)	Aluminum	Detected sample results <RL and <BAL	"UB" at the RL
EW-101 (IRAP)	Aluminum	Detected sample results >RL and <BAL	"UB" at detected sample concentration

RL = reporting limit

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

3.2 CRDL Check Standard

The CRDL check standard serves to verify the linearity of calibration of the analysis at the CRDL. The CRDL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the CRDL standard analysis are presented below in the CRDL standards evaluation table.

All CRDL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

A MS/MSD analysis was not performed on sample location within this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

A laboratory duplicate was not performed on a sample location within this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate analysis was not performed on a sample location within this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

A serial dilution was not performed on sample location within this SDG.

8. Furnace Analysis QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

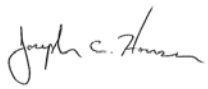
10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6000	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X	X		
B. Method Blanks		X		X	
C. Equipment/Field Blanks					X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R					X
Matrix Spike Duplicate (MSD) %R					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
ICP Serial Dilution					X
Reporting Limit Verification		X		X	
Raw Data		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
CRDL Standard		X		X	
ICP Interference Check		X		X	
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 21, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 24, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: **MW-19**

Lab Sample ID: 660-28391-1
Client Matrix: Water

Date Sampled: 03/24/2009 1400
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0452
Date Prepared: 03/26/2009 0452

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2545.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-19

Lab Sample ID: 660-28391-1
Client Matrix: Water

Date Sampled: 03/24/2009 1400
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0452
Date Prepared: 03/26/2009 0452

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2545.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	102	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	105	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-134

Lab Sample ID: 660-28391-2
Client Matrix: Water

Date Sampled: 03/24/2009 1010
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1232
Date Prepared: 03/27/2009 1232

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2650.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U J	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U J	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	12		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	65		4.5	10
cis-1,2-Dichloroethene	64		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U J	3.6	10
1,1-Dichloropropene	3.1	U J	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-134

Lab Sample ID: 660-28391-2
Client Matrix: Water

Date Sampled: 03/24/2009 1010
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1232
Date Prepared: 03/27/2009 1232

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2650.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	5.0	U	5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	420	J	5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	106	77 - 122
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	86	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: DUP-03

Lab Sample ID: 660-28391-3
Client Matrix: Water

Date Sampled: 03/24/2009 0000
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1258
Date Prepared: 03/27/2009 1258

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2651.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	13		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	75		4.5	10
cis-1,2-Dichloroethene	68		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: DUP-03

Lab Sample ID: 660-28391-3
Client Matrix: Water

Date Sampled: 03/24/2009 0000
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1258
Date Prepared: 03/27/2009 1258

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2651.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	5.0	U	5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U J	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	640	J	5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	105	77 - 122
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	87	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-41

Lab Sample ID: 660-28391-4
Client Matrix: Water

Date Sampled: 03/24/2009 1006
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1325
Date Prepared: 03/27/2009 1325

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2652.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	14		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	80		4.5	10
cis-1,2-Dichloroethene	100		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-41

Lab Sample ID: 660-28391-4
Client Matrix: Water

Date Sampled: 03/24/2009 1006
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1325
Date Prepared: 03/27/2009 1325

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2652.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	5.0	U	5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U J	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	270	J	5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	105	77 - 122
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	85	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-130

Lab Sample ID: 660-28391-5
Client Matrix: Water

Date Sampled: 03/24/2009 0850
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1351
Date Prepared: 03/27/2009 1351

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2653.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	2.5		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	3.9		0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-130

Lab Sample ID: 660-28391-5
Client Matrix: Water

Date Sampled: 03/24/2009 0850
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1351
Date Prepared: 03/27/2009 1351

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2653.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U J	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.62	J	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	107	77 - 122
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	87	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-253

Lab Sample ID: 660-28391-6
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/30/2009 1426
Date Prepared: 03/30/2009 1426

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2956.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Chlorobromomethane	29	U J	29	50
Dichlorobromomethane	18	U	18	50
Bromoform	29	U	29	50
Bromomethane	120	U	120	250
n-Butylbenzene	34	U	34	50
sec-Butylbenzene	32	U	32	50
tert-Butylbenzene	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
2-Chlorotoluene	32	U	32	50
4-Chlorotoluene	26	U	26	50
Chlorodibromomethane	17	U	17	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
Ethylene Dibromide	25	U	25	50
Dibromomethane	20	U	20	50
1,2-Dichlorobenzene	22	U	22	50
1,3-Dichlorobenzene	32	U	32	50
1,4-Dichlorobenzene	26	U	26	50
Dichlorodifluoromethane	120	U	120	250
1,1-Dichloroethane	58		26	50
1,2-Dichloroethane	28	U	28	50
1,1,1,2-Tetrachloroethane	32	U	32	50
1,1-Dichloroethene	400		22	50
cis-1,2-Dichloroethene	200		32	50
trans-1,2-Dichloroethene	22	U	22	50
1,2-Dichloropropane	26	U	26	50
1,3-Dichloropropane	20	U	20	50
2,2-Dichloropropane	18	U	18	50
1,1-Dichloropropene	16	U	16	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Ethylbenzene	22	U	22	50
Hexachlorobutadiene	20	U	20	50
Isopropylbenzene	9.5	U	9.5	50
4-Isopropyltoluene	34	U	34	50
Methylene Chloride	200	U	200	250
Naphthalene	120	U	120	250
N-Propylbenzene	30	U	30	50
Styrene	49	U	49	100

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-253

Lab Sample ID: 660-28391-6
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/30/2009 1426
Date Prepared: 03/30/2009 1426

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2956.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
Tetrachloroethene	25	U	25	50
Toluene	26	U	26	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,4-Trichlorobenzene	29	U	29	50
1,1,1-Trichloroethane	23	U	23	50
1,1,2-Trichloroethane	24	U	24	50
Trichloroethene	4400	J	25	50
Trichlorofluoromethane	120	U	120	250
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trimethylbenzene	43	U	43	50
1,3,5-Trimethylbenzene	27	U	27	50
Vinyl chloride	25	U	25	50
o-Xylene	25	U	25	50
Acetone	500	U	500	1000
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Carbon disulfide	42	U	42	50
2-Hexanone	220	U	220	500
Methyl tert-butyl ether	22	U	22	50
m-Xylene & p-Xylene	30	U	30	100

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	104	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	90	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-101

Lab Sample ID: 660-28391-7
Client Matrix: Water

Date Sampled: 03/24/2009 1217
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1442
Date Prepared: 03/27/2009 1442

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2655.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	110		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	9.0		0.45	1.0
cis-1,2-Dichloroethene	4.6		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-101

Lab Sample ID: 660-28391-7
Client Matrix: Water

Date Sampled: 03/24/2009 1217
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1442
Date Prepared: 03/27/2009 1442

Analysis Batch: 660-76899

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2655.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	2.9		0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	16		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	106	77 - 122
4-Bromofluorobenzene	107	74 - 126
Dibromofluoromethane	87	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-107

Lab Sample ID: 660-28391-8
Client Matrix: Water

Date Sampled: 03/24/2009 1045
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 0020
Date Prepared: 03/28/2009 0020

Analysis Batch: 660-77033

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U J	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-107

Lab Sample ID: 660-28391-8
Client Matrix: Water

Date Sampled: 03/24/2009 1045
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 0020
Date Prepared: 03/28/2009 0020

Analysis Batch: 660-77033

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	2.2		0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	1.4		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	109	77 - 122
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	85	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-87

Lab Sample ID: 660-28391-9
Client Matrix: Water

Date Sampled: 03/24/2009 1506
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/28/2009 0133
Date Prepared: 03/28/2009 0133

Analysis Batch: 660-77033

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	150		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	960		4.5	10
cis-1,2-Dichloroethene	18		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-87

Lab Sample ID: 660-28391-9
Client Matrix: Water

Date Sampled: 03/24/2009 1506
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/28/2009 0133
Date Prepared: 03/28/2009 0133

Analysis Batch: 660-77033

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	74		5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	190		5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	104	77 - 122
4-Bromofluorobenzene	109	74 - 126
Dibromofluoromethane	87	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-106

Lab Sample ID: 660-28391-10
Client Matrix: Water

Date Sampled: 03/24/2009 1310
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/30/2009 1450
Date Prepared: 03/30/2009 1450

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2957.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U J	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	39		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	72		4.5	10
cis-1,2-Dichloroethene	94		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-106

Lab Sample ID: 660-28391-10
Client Matrix: Water

Date Sampled: 03/24/2009 1310
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/30/2009 1450
Date Prepared: 03/30/2009 1450

Analysis Batch: 660-77037

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2957.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	27		5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	700	J	5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	106	77 - 122
4-Bromofluorobenzene	105	74 - 126
Dibromofluoromethane	90	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-23

Lab Sample ID: 660-28391-11
Client Matrix: Water

Date Sampled: 03/24/2009 1015
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 0221
Date Prepared: 03/28/2009 0221

Analysis Batch: 660-77033

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-23

Lab Sample ID: 660-28391-11
Client Matrix: Water

Date Sampled: 03/24/2009 1015
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 0221
Date Prepared: 03/28/2009 0221

Analysis Batch: 660-77033

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2728.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	108	77 - 122
4-Bromofluorobenzene	108	74 - 126
Dibromofluoromethane	85	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: Trip Blank

Lab Sample ID: 660-28391-12
Client Matrix: Water

Date Sampled: 03/24/2009 0000
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0427
Date Prepared: 03/26/2009 0427

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2544.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	R 2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28391-12
Client Matrix: Water

Date Sampled: 03/24/2009 0000
Date Received: 03/25/2009 1500

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0427
Date Prepared: 03/26/2009 0427

Analysis Batch: 660-77024

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2544.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	102	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	102	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-19

Lab Sample ID: 660-28391-1
Client Matrix: Water

Date Sampled: 03/24/2009 1400
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0452
Date Prepared: 03/26/2009 0452

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2545.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-134

Lab Sample ID: 660-28391-2
Client Matrix: Water

Date Sampled: 03/24/2009 1010
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1232
Date Prepared: 03/27/2009 1232

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2650.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	70		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: DUP-03

Lab Sample ID: 660-28391-3
Client Matrix: Water

Date Sampled: 03/24/2009 0000
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1258
Date Prepared: 03/27/2009 1258

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2651.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	70		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-41

Lab Sample ID: 660-28391-4
Client Matrix: Water

Date Sampled: 03/24/2009 1006
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/27/2009 1325
Date Prepared: 03/27/2009 1325

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2652.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	530		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-130

Lab Sample ID: 660-28391-5
Client Matrix: Water

Date Sampled: 03/24/2009 0850
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1351
Date Prepared: 03/27/2009 1351

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2653.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	11		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-253

Lab Sample ID: 660-28391-6
Client Matrix: Water

Date Sampled: 03/24/2009 1615
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/30/2009 1426
Date Prepared: 03/30/2009 1426

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2956.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	300		27	50

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-101

Lab Sample ID: 660-28391-7
Client Matrix: Water

Date Sampled: 03/24/2009 1217
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/27/2009 1442
Date Prepared: 03/27/2009 1442

Analysis Batch: 660-76906

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2655.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.94	I	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-107

Lab Sample ID: 660-28391-8
Client Matrix: Water

Date Sampled: 03/24/2009 1045
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 0020
Date Prepared: 03/28/2009 0020

Analysis Batch: 660-77034

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2723.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.58	I	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: **MW-87**

Lab Sample ID: 660-28391-9
Client Matrix: Water

Date Sampled: 03/24/2009 1506
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/28/2009 0133
Date Prepared: 03/28/2009 0133

Analysis Batch: 660-77034

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2726.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	540		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-106

Lab Sample ID: 660-28391-10
Client Matrix: Water

Date Sampled: 03/24/2009 1310
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/30/2009 1450
Date Prepared: 03/30/2009 1450

Analysis Batch: 660-77038

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2957.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	19		5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: MW-23

Lab Sample ID: 660-28391-11
Client Matrix: Water

Date Sampled: 03/24/2009 1015
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0856
Date Prepared: 03/26/2009 0856

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2555.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	3.0		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28391-12
Client Matrix: Water

Date Sampled: 03/24/2009 0000
Date Received: 03/25/2009 1500

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/26/2009 0427
Date Prepared: 03/26/2009 0427

Analysis Batch: 660-77029

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2544.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-101

Lab Sample ID: 660-28391-7
Client Matrix: Water

Date Sampled: 03/24/2009 1217
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1223
Date Prepared: 03/30/2009 0656

Analysis Batch: 660-77010
Prep Batch: 660-76974

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.24	UB	0.050	0.20
Arsenic	0.0099	I	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	4.0		0.050	0.20
Nickel	0.033		0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.0050	U	0.0050	0.020

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-107

Lab Sample ID: 660-28391-8
Client Matrix: Water

Date Sampled: 03/24/2009 1045
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1228
Date Prepared: 03/30/2009 0656

Analysis Batch: 660-77010
Prep Batch: 660-76974

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	~~0.076~~ 0.20	UB+	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	7.5		0.050	0.20
Nickel	0.0020	U	0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.0050	U	0.0050	0.020

Analytical Data

Client: ARCADIS

Job Number: 660-28391-1
Sdg Number: 660-28391

Client Sample ID: EW-106

Lab Sample ID: 660-28391-10
Client Matrix: Water

Date Sampled: 03/24/2009 1310
Date Received: 03/25/2009 1500

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/30/2009 1232
Date Prepared: 03/30/2009 0656

Analysis Batch: 660-77010
Prep Batch: 660-76974

Instrument ID: TJA ICP
Lab File ID: 9C30B
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	~~0.057~~ 0.20	UB1	0.050	0.20
Arsenic	0.036		0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	21		0.050	0.20
Nickel	0.011		0.0020	0.0080
Lead	0.0037	I	0.0020	0.010
Zinc	0.022		0.0050	0.020

Serial Number 12228

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring Page #1

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone: 6060-28391
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	30038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813.903.3138	813.903.3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS		
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ●

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT,...)	REQUIRED ANALYSIS: 8260B (HCl)	8260B_SIM (None)	300.0-28D (Bromide)	6010B (HNO3)	REMARKS
3/24/09	1400	MW-19	G	X				4	1	—		
	1400	MW-19 MS						4	1	—		
	1400	MW-19 MSD						4	1	—		
	1010	MW-134						4	1	—		
	—	DUP-03						4	1	—		
	1006	MW-41						4	1	—		
	0850	MW-130						4	1	—		
	1615	MW-253						4	1	—		
	1217	EW-101						4	1	1		
	1045	EW-107						4	1	1		
	1506	MW-87						4	—	—		
	1310	EW-106						4	1	1		

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1506
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340	Amanda Hamrick	3/25/09	1500

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hamrick	3/25/09	1500	YES ○ NO ○		6060-28391	2.3°C 3.1°C	CU-07

TAL8240-660 (1207)

R625-EDC-001214-0

Serial Number 12229

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring Page #2

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

SEE RATE #1

PAGE 2 OF 2

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: COMPOSITE (C) OR GRAB (G) *INDICATE*	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	REQUIRED ANALYSIS: 8260B	8260B-SIM 300.0-28D (Bromide)	PRESERVATIVE: HCl	None	REMARKS
3/24/09	1015	MW-23	G	X				4	1			
↓		Trip Blank	↓	↓				3				Added per client NCT 3-26-09

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1540
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/25/09	1340		3/25/09	1520

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO. 660-28391	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3/25/09	1500				2.3°C 3.1°C CA-02	

TAL8240-660 (1207)

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles and Metals Analyses

SDG# 660-28427

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10011R
Review Level: Tier III
Project: B0038055.0015.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28427 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
EW-102 (IRAP)	660-28427-1	WATER	3/25/2009		X			X	
MW-76 (IRAP)	660-28427-2	WATER	3/25/2009		X				
Trip Blank (IRAP)	660-28427-3	WATER	3/25/2009		X				

Note:

1. The Bromide analysis that was performed in this SDG was not validated.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
All sample locations within this SDG	CCV %D	2,2-Dichloropropane	-41.9%
		Acetone	21.2%
		Bromomethane	-39.9%
		Dichlorodifluoromethane	-29.1%
		Hexachlorobutadiene	-21.9%
		Tetrachloroethene	57.8%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on a sample location associated with this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Manual integration was performed for 1,4-Dioxane analysis on the internal standard 1,4-Dioxane-d8 for sample location MW-76 (IRAP). The manual integration performed by the laboratory was consistent from baseline to baseline of the primary quantitation ion; therefore the detected sample result was not qualified.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) SW-846 Method 6010B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

    U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

    B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

    E The reported value is estimated due to the presence of interference.

    N Spiked sample recovery is not within control limits.

    * Duplicate analysis is not within control limits.

- Validation Qualifiers

    J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

    UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

    UB Analyte considered non-detect at the listed value due to associated blank contamination.

    R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the instrument detection limit (IDL) or method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

3.2 CRDL Check Standard

The CRDL check standard serves to verify the linearity of calibration of the analysis at the CRDL. The CRDL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the CRDL standard analysis are presented below in the CRDL standards evaluation table.

All CRDL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

A MS/MSD analysis was not performed on sample location within this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

A laboratory duplicate was not performed on a sample location within this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate analysis was not performed on a sample location within this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the

same sample analyzed with a five-fold dilution.

A serial dilution was not performed on sample location within this SDG.

8. Furnace Analysis QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

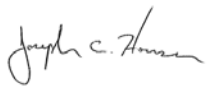
10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6000	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks					X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R					X
Matrix Spike Duplicate (MSD) %R					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
ICP Serial Dilution					X
Reporting Limit Verification		X		X	
Raw Data		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
CRDL Standard		X		X	
ICP Interference Check		X		X	
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 17, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 27, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: EW-102

Lab Sample ID: 660-28427-1
Client Matrix: Water

Date Sampled: 03/25/2009 1039
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1910
Date Prepared: 03/28/2009 1910

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
1,1-Dichloroethane	21		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	100		0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: EW-102

Lab Sample ID: 660-28427-1
Client Matrix: Water

Date Sampled: 03/25/2009 1039
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1910
Date Prepared: 03/28/2009 1910

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2731.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.94	I	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	1.2		0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	77 - 122
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	112	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: MW-76

Lab Sample ID: 660-28427-2
Client Matrix: Water

Date Sampled: 03/25/2009 1141
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1853
Date Prepared: 03/28/2009 1853

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2730.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
1,1-Dichloroethane	1.5		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	1.5		0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: MW-76

Lab Sample ID: 660-28427-2
Client Matrix: Water

Date Sampled: 03/25/2009 1141
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1853
Date Prepared: 03/28/2009 1853

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2730.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.73	J	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	28		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	92	77 - 122
4-Bromofluorobenzene	98	74 - 126
Dibromofluoromethane	108	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: Trip Blank

Lab Sample ID: 660-28427-3
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1836
Date Prepared: 03/28/2009 1836

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U J	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U J	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28427-3
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1836
Date Prepared: 03/28/2009 1836

Analysis Batch: 660-76977

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	95	77 - 122
4-Bromofluorobenzene	95	74 - 126
Dibromofluoromethane	110	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: EW-102

Lab Sample ID: 660-28427-1
Client Matrix: Water

Date Sampled: 03/25/2009 1039
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/30/2009 1341
Date Prepared: 03/30/2009 1341

Analysis Batch: 660-77004

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3020.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	95		2.0	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: MW-76

Lab Sample ID: 660-28427-2
Client Matrix: Water

Date Sampled: 03/25/2009 1141
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1853
Date Prepared: 03/28/2009 1853

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2730.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	2.1		1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28427-3
Client Matrix: Water

Date Sampled: 03/25/2009 0000
Date Received: 03/26/2009 1350

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/28/2009 1836
Date Prepared: 03/28/2009 1836

Analysis Batch: 660-76979

Instrument ID: BVMH GC/MS
Lab File ID: 2HC2729.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28427-1
Sdg Number: 660-28427

Client Sample ID: EW-102

Lab Sample ID: 660-28427-1
Client Matrix: Water

Date Sampled: 03/25/2009 1039
Date Received: 03/26/2009 1350

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/31/2009 1205
Date Prepared: 03/27/2009 0854

Analysis Batch: 660-77078
Prep Batch: 660-76874

Instrument ID: TJA ICP TRACE
Lab File ID: 9C31A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	13		0.050	0.20
Nickel	0.0020	U	0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.0050	U	0.0050	0.020

Serial Number 12236

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6600-28487
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	B003805S.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 2

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT....)	8260B HCl	8260B_SIM 300.0-28D (Bromide) NONE	6010B HNO3	REMARKS
3/25/09	1039	EW-102	G	X				4	1	1	* Sample for
3/25/09	1141	MW-76	G	X				4	*	—	bromide analysis
↓		Trip Blank	↓	↓				3			is part of bromide
		Added per client NT 3-27-09									& sulfate analysis
											under UIC chain

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235		3/26/09	1350
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/26/09	1235	Amanda Harrison	3/26/09	1350

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-2009	1350	YES ○ NO ○		6600-28487	2.5°C cu TO7	

TAL8240-660 (1207)

Page 37 of 39

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles and Metals Analyses

SDG# 660-28287

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #9992R
Review Level: Tier III
Project: B0038055.0015.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28287 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-36 (IRAP)	660-28287-1	WATER	3/19/2009		X				
MW-127 (IRAP)	660-28287-2	WATER	3/19/2009		X				
MW-77 (IRAP)	660-28287-3	WATER	3/19/2009		X				
MW-37 (IRAP)	660-28287-4	WATER	3/19/2009		X				
MW-40 (IRAP)	660-28287-5	WATER	3/19/2009		X				
EW-105 (IRAP)	660-28287-6	WATER	3/19/2009		X			X	
MW-254 (IRAP)	660-28287-7	WATER	3/19/2009		X				
Trip Blank (IRAP)	660-28287-8	WATER	3/19/2009		X				

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-36 (IRAP).
2. The Bromide analysis that was performed in this SDG was not validated.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-36 (IRAP)	CCV %D	Bromomethane	62.5%
		Chloroethane	35.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC

analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) SW-846 Method 6010B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

  B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

  E The reported value is estimated due to the presence of interference.

  N Spiked sample recovery is not within control limits.

  * Duplicate analysis is not within control limits.

- Validation Qualifiers

  J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

  UB Analyte considered non-detect at the listed value due to associated blank contamination.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

METALS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010B	Water	180 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2.
	Soil	180 days from collection to analysis	Cooled @ 4 °C.

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the instrument detection limit (IDL) or method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Calibration

Satisfactory instrument calibration is established to provide that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument's continuing performance is satisfactory.

3.1 Initial Calibration and Continuing Calibration

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 for all non-ICP analytes and all initial calibration verification standard recoveries were within control limits.

All continuing calibration verification standard recoveries were within the control limit.

3.2 CRDL Check Standard

The CRDL check standard serves to verify the linearity of calibration of the analysis at the CRDL. The CRDL standard is not required for the analysis of aluminum (Al), barium (Ba), calcium (Ca), iron (Fe), magnesium (Mg), sodium (Na), and potassium (K). The criteria used to evaluate the CRDL standard analysis are presented below in the CRDL standards evaluation table.

All CRDL standard recoveries were within control limits.

3.3 ICP Interference Control Sample (ICS)

The ICS verifies the laboratories interelement and background correction factors.

All ICS exhibited recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

A MS/MSD analysis was not performed on sample location within this SDG.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

A laboratory duplicate was not performed on a sample location within this SDG.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate analysis was not performed on a sample location within this SDG.

6. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

7. Serial Dilution

The serial dilution analysis is used to assess if a significant physical or chemical interference exists due to sample matrix. Analytes exhibiting concentrations greater than 50 times the MDL in the undiluted sample are evaluated to determine if matrix interference exists. These analytes are required to have less than a 10% difference (%D) between sample results from the undiluted (parent) sample and results associated with the same sample analyzed with a five-fold dilution.

A serial dilution was not performed on sample location within this SDG.

8. Furnace Analysis QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

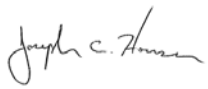
10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METALS

METALS; SW-846 6000	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Instrument Blanks		X		X	
B. Method Blanks		X		X	
C. Equipment/Field Blanks					X
Laboratory Control Sample (LCS)		X		X	
Matrix Spike (MS) %R					X
Matrix Spike Duplicate (MSD) %R					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)					X
ICP Serial Dilution					X
Reporting Limit Verification		X		X	
Raw Data		X		X	
Tier III Validation					
Initial Calibration Verification		X		X	
Continuing Calibration Verification		X		X	
CRDL Standard		X		X	
ICP Interference Check		X		X	
Transcription/calculation errors present		X		X	
Reporting limits adjusted to reflect sample dilutions		X		X	

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 13, 2009

PEER REVIEW BY: Dennis Capria

DATE: May 4, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-36

Lab Sample ID: 660-28287-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 03/25/2009 0040
Date Prepared: 03/25/2009 0040

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2432.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	2.5	U	2.5	5.0
Bromobenzene	2.9	U	2.9	5.0
Chlorobromomethane	2.9	U	2.9	5.0
Dichlorobromomethane	1.8	U	1.8	5.0
Bromoform	2.9	U	2.9	5.0
Bromomethane	12	U	12	25
n-Butylbenzene	3.4	U	3.4	5.0
sec-Butylbenzene	3.2	U	3.2	5.0
tert-Butylbenzene	4.2	U	4.2	5.0
Carbon tetrachloride	2.1	U	2.1	5.0
Chlorobenzene	3.2	U	3.2	5.0
Chloroethane	12	U	12	25
Chloroform	4.5	U	4.5	5.0
Chloromethane	5.0	U	5.0	20
2-Chlorotoluene	3.2	U	3.2	5.0
4-Chlorotoluene	2.6	U	2.6	5.0
Chlorodibromomethane	1.7	U	1.7	5.0
1,2-Dibromo-3-Chloropropane	12	U	12	25
Ethylene Dibromide	2.5	U	2.5	5.0
Dibromomethane	2.0	U	2.0	5.0
1,2-Dichlorobenzene	2.2	U	2.2	5.0
1,3-Dichlorobenzene	3.2	U	3.2	5.0
1,4-Dichlorobenzene	2.6	U	2.6	5.0
Dichlorodifluoromethane	12	U	12	25
1,1-Dichloroethane	59		2.6	5.0
1,2-Dichloroethane	2.8	U	2.8	5.0
1,1,1,2-Tetrachloroethane	3.2	U	3.2	5.0
1,1-Dichloroethene	220		2.2	5.0
cis-1,2-Dichloroethene	14		3.2	5.0
trans-1,2-Dichloroethene	2.2	U	2.2	5.0
1,2-Dichloropropane	2.6	U	2.6	5.0
1,3-Dichloropropane	2.0	U	2.0	5.0
2,2-Dichloropropane	1.8	U	1.8	5.0
1,1-Dichloropropene	1.6	U	1.6	5.0
cis-1,3-Dichloropropene	0.70	U	0.70	5.0
trans-1,3-Dichloropropene	0.70	U	0.70	5.0
Ethylbenzene	2.2	U	2.2	5.0
Hexachlorobutadiene	2.0	U	2.0	5.0
Isopropylbenzene	0.95	U	0.95	5.0
4-Isopropyltoluene	3.4	U	3.4	5.0
Methylene Chloride	20	U	20	25
Naphthalene	12	U	12	25
N-Propylbenzene	3.0	U	3.0	5.0
Styrene	4.9	U	4.9	10

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-36

Lab Sample ID: 660-28287-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 03/25/2009 0040
Date Prepared: 03/25/2009 0040

Analysis Batch: 660-76772

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2432.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.75	U	0.75	5.0
Tetrachloroethene	3.4	I	2.5	5.0
Toluene	2.6	U	2.6	5.0
1,2,3-Trichlorobenzene	3.8	U	3.8	5.0
1,2,4-Trichlorobenzene	2.9	U	2.9	5.0
1,1,1-Trichloroethane	2.3	U	2.3	5.0
1,1,2-Trichloroethane	2.4	U	2.4	5.0
Trichloroethene	400		2.5	5.0
Trichlorofluoromethane	12	U	12	25
1,2,3-Trichloropropane	0.90	U	0.90	5.0
1,2,4-Trimethylbenzene	4.3	U	4.3	5.0
1,3,5-Trimethylbenzene	2.7	U	2.7	5.0
Vinyl chloride	2.5	U	2.5	5.0
o-Xylene	2.5	U	2.5	5.0
Acetone	50	U	50	100
2-Butanone (MEK)	42	U	42	50
4-Methyl-2-pentanone (MIBK)	19	U	19	50
Carbon disulfide	4.2	U	4.2	5.0
2-Hexanone	22	U	22	50
Methyl tert-butyl ether	2.2	U	2.2	5.0
m-Xylene & p-Xylene	3.0	U	3.0	10

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	100	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-127

Lab Sample ID: 660-28287-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1728
Date Prepared: 03/23/2009 1728

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Chlorobromomethane	29	U	29	50
Dichlorobromomethane	18	U	18	50
Bromoform	29	U	29	50
Bromomethane	120	U	120	250
n-Butylbenzene	34	U	34	50
sec-Butylbenzene	32	U	32	50
tert-Butylbenzene	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
2-Chlorotoluene	32	U	32	50
4-Chlorotoluene	26	U	26	50
Chlorodibromomethane	17	U	17	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
Ethylene Dibromide	25	U	25	50
Dibromomethane	20	U	20	50
1,2-Dichlorobenzene	22	U	22	50
1,3-Dichlorobenzene	32	U	32	50
1,4-Dichlorobenzene	26	U	26	50
Dichlorodifluoromethane	120	U	120	250
1,1-Dichloroethane	76		26	50
1,2-Dichloroethane	28	U	28	50
1,1,1,2-Tetrachloroethane	32	U	32	50
1,1-Dichloroethene	400		22	50
cis-1,2-Dichloroethene	120		32	50
trans-1,2-Dichloroethene	22	U	22	50
1,2-Dichloropropane	26	U	26	50
1,3-Dichloropropane	20	U	20	50
2,2-Dichloropropane	18	U	18	50
1,1-Dichloropropene	16	U	16	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Ethylbenzene	22	U	22	50
Hexachlorobutadiene	20	U	20	50
Isopropylbenzene	9.5	U	9.5	50
4-Isopropyltoluene	34	U	34	50
Methylene Chloride	200	U	200	250
Naphthalene	120	U	120	250
N-Propylbenzene	30	U	30	50
Styrene	49	U	49	100

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-127

Lab Sample ID: 660-28287-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1728
Date Prepared: 03/23/2009 1728

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
Tetrachloroethene	170		25	50
Toluene	26	U	26	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,4-Trichlorobenzene	29	U	29	50
1,1,1-Trichloroethane	23	U	23	50
1,1,2-Trichloroethane	24	U	24	50
Trichloroethene	3000		25	50
Trichlorofluoromethane	120	U	120	250
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trimethylbenzene	43	U	43	50
1,3,5-Trimethylbenzene	27	U	27	50
Vinyl chloride	25	U	25	50
o-Xylene	25	U	25	50
Acetone	500	U	500	1000
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Carbon disulfide	42	U	42	50
2-Hexanone	220	U	220	500
Methyl tert-butyl ether	22	U	22	50
m-Xylene & p-Xylene	30	U	30	100

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-77

Lab Sample ID: 660-28287-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 03/23/2009 1753
Date Prepared: 03/23/2009 1753

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	2.0	U	2.0	4.0
Bromobenzene	2.3	U	2.3	4.0
Chlorobromomethane	2.3	U	2.3	4.0
Dichlorobromomethane	1.4	U	1.4	4.0
Bromoform	2.3	U	2.3	4.0
Bromomethane	10	U	10	20
n-Butylbenzene	2.7	U	2.7	4.0
sec-Butylbenzene	2.5	U	2.5	4.0
tert-Butylbenzene	3.4	U	3.4	4.0
Carbon tetrachloride	1.7	U	1.7	4.0
Chlorobenzene	2.5	U	2.5	4.0
Chloroethane	10	U	10	20
Chloroform	3.6	U	3.6	4.0
Chloromethane	4.0	U	4.0	16
2-Chlorotoluene	2.6	U	2.6	4.0
4-Chlorotoluene	2.1	U	2.1	4.0
Chlorodibromomethane	1.4	U	1.4	4.0
1,2-Dibromo-3-Chloropropane	10	U	10	20
Ethylene Dibromide	2.0	U	2.0	4.0
Dibromomethane	1.6	U	1.6	4.0
1,2-Dichlorobenzene	1.8	U	1.8	4.0
1,3-Dichlorobenzene	2.6	U	2.6	4.0
1,4-Dichlorobenzene	2.1	U	2.1	4.0
Dichlorodifluoromethane	10	U	10	20
1,1-Dichloroethane	23		2.1	4.0
1,2-Dichloroethane	2.3	U	2.3	4.0
1,1,1,2-Tetrachloroethane	2.5	U	2.5	4.0
1,1-Dichloroethene	21		1.8	4.0
cis-1,2-Dichloroethene	2.6	U	2.6	4.0
trans-1,2-Dichloroethene	1.8	U	1.8	4.0
1,2-Dichloropropane	2.1	U	2.1	4.0
1,3-Dichloropropane	1.6	U	1.6	4.0
2,2-Dichloropropane	1.4	U	1.4	4.0
1,1-Dichloropropene	1.2	U	1.2	4.0
cis-1,3-Dichloropropene	0.56	U	0.56	4.0
trans-1,3-Dichloropropene	0.56	U	0.56	4.0
Ethylbenzene	1.8	U	1.8	4.0
Hexachlorobutadiene	1.6	U	1.6	4.0
Isopropylbenzene	0.76	U	0.76	4.0
4-Isopropyltoluene	2.8	U	2.8	4.0
Methylene Chloride	16	U	16	20
Naphthalene	10	U	10	20
N-Propylbenzene	2.4	U	2.4	4.0
Styrene	3.9	U	3.9	8.0

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-77

Lab Sample ID: 660-28287-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 03/23/2009 1753
Date Prepared: 03/23/2009 1753

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.60	U	0.60	4.0
Tetrachloroethene	2.0	U	2.0	4.0
Toluene	2.0	U	2.0	4.0
1,2,3-Trichlorobenzene	3.1	U	3.1	4.0
1,2,4-Trichlorobenzene	2.3	U	2.3	4.0
1,1,1-Trichloroethane	1.8	U	1.8	4.0
1,1,2-Trichloroethane	1.9	U	1.9	4.0
Trichloroethene	13		2.0	4.0
Trichlorofluoromethane	10	U	10	20
1,2,3-Trichloropropane	0.72	U	0.72	4.0
1,2,4-Trimethylbenzene	3.4	U	3.4	4.0
1,3,5-Trimethylbenzene	2.2	U	2.2	4.0
Vinyl chloride	2.0	U	2.0	4.0
o-Xylene	2.0	U	2.0	4.0
Acetone	40	U	40	80
2-Butanone (MEK)	34	U	34	40
4-Methyl-2-pentanone (MIBK)	15	U	15	40
Carbon disulfide	3.4	U	3.4	4.0
2-Hexanone	18	U	18	40
Methyl tert-butyl ether	1.8	U	1.8	4.0
m-Xylene & p-Xylene	2.4	U	2.4	8.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	99	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-37

Lab Sample ID: 660-28287-4
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1817
Date Prepared: 03/23/2009 1817

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	25	U	25	50
Bromobenzene	29	U	29	50
Chlorobromomethane	29	U	29	50
Dichlorobromomethane	18	U	18	50
Bromoform	29	U	29	50
Bromomethane	120	U	120	250
n-Butylbenzene	34	U	34	50
sec-Butylbenzene	32	U	32	50
tert-Butylbenzene	42	U	42	50
Carbon tetrachloride	21	U	21	50
Chlorobenzene	32	U	32	50
Chloroethane	120	U	120	250
Chloroform	45	U	45	50
Chloromethane	50	U	50	200
2-Chlorotoluene	32	U	32	50
4-Chlorotoluene	26	U	26	50
Chlorodibromomethane	17	U	17	50
1,2-Dibromo-3-Chloropropane	120	U	120	250
Ethylene Dibromide	25	U	25	50
Dibromomethane	20	U	20	50
1,2-Dichlorobenzene	22	U	22	50
1,3-Dichlorobenzene	32	U	32	50
1,4-Dichlorobenzene	26	U	26	50
Dichlorodifluoromethane	120	U	120	250
1,1-Dichloroethane	49	I	26	50
1,2-Dichloroethane	28	U	28	50
1,1,1,2-Tetrachloroethane	32	U	32	50
1,1-Dichloroethene	160		22	50
cis-1,2-Dichloroethene	210		32	50
trans-1,2-Dichloroethene	22	U	22	50
1,2-Dichloropropane	26	U	26	50
1,3-Dichloropropane	20	U	20	50
2,2-Dichloropropane	18	U	18	50
1,1-Dichloropropene	16	U	16	50
cis-1,3-Dichloropropene	7.0	U	7.0	50
trans-1,3-Dichloropropene	7.0	U	7.0	50
Ethylbenzene	22	U	22	50
Hexachlorobutadiene	20	U	20	50
Isopropylbenzene	9.5	U	9.5	50
4-Isopropyltoluene	34	U	34	50
Methylene Chloride	200	U	200	250
Naphthalene	120	U	120	250
N-Propylbenzene	30	U	30	50
Styrene	49	U	49	100

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-37

Lab Sample ID: 660-28287-4
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1817
Date Prepared: 03/23/2009 1817

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	7.5	U	7.5	50
Tetrachloroethene	160		25	50
Toluene	26	U	26	50
1,2,3-Trichlorobenzene	38	U	38	50
1,2,4-Trichlorobenzene	29	U	29	50
1,1,1-Trichloroethane	23	U	23	50
1,1,2-Trichloroethane	24	U	24	50
Trichloroethene	3400		25	50
Trichlorofluoromethane	120	U	120	250
1,2,3-Trichloropropane	9.0	U	9.0	50
1,2,4-Trimethylbenzene	43	U	43	50
1,3,5-Trimethylbenzene	27	U	27	50
Vinyl chloride	25	U	25	50
o-Xylene	25	U	25	50
Acetone	500	U	500	1000
2-Butanone (MEK)	420	U	420	500
4-Methyl-2-pentanone (MIBK)	190	U	190	500
Carbon disulfide	42	U	42	50
2-Hexanone	220	U	220	500
Methyl tert-butyl ether	22	U	22	50
m-Xylene & p-Xylene	30	U	30	100

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	104	74 - 126
Dibromofluoromethane	100	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-40

Lab Sample ID: 660-28287-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/23/2009 1842
Date Prepared: 03/23/2009 1842

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	11		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	11		4.5	10
cis-1,2-Dichloroethene	6.5	U	6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-40

Lab Sample ID: 660-28287-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/23/2009 1842
Date Prepared: 03/23/2009 1842

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	180		5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	650		5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	102	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	101	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: EW-105

Lab Sample ID: 660-28287-6
Client Matrix: Water

Date Sampled: 03/19/2009 1635
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1906
Date Prepared: 03/23/2009 1906

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
tert-Butylbenzene	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	1.3	U	1.3	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
2-Chlorotoluene	1.3	U	1.3	2.0
4-Chlorotoluene	1.0	U	1.0	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	10
Ethylene Dibromide	1.0	U	1.0	2.0
Dibromomethane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
Dichlorodifluoromethane	5.0	U	5.0	10
1,1-Dichloroethane	160		1.0	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
1,1-Dichloroethene	6.8		0.90	2.0
cis-1,2-Dichloroethene	2.6		1.3	2.0
trans-1,2-Dichloroethene	0.88	U	0.88	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Ethylbenzene	0.88	U	0.88	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0
Isopropylbenzene	0.38	U	0.38	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Methylene Chloride	8.0	U	8.0	10
Naphthalene	5.0	U	5.0	10
N-Propylbenzene	1.2	U	1.2	2.0
Styrene	2.0	U	2.0	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: EW-105

Lab Sample ID: 660-28287-6
Client Matrix: Water

Date Sampled: 03/19/2009 1635
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1906
Date Prepared: 03/23/2009 1906

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
Tetrachloroethene	3.0		1.0	2.0
Toluene	1.0	U	1.0	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
Trichloroethene	4.2		1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
Vinyl chloride	1.0	U	1.0	2.0
o-Xylene	1.0	U	1.0	2.0
Acetone	20	U	20	40
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Carbon disulfide	1.7	U	1.7	2.0
2-Hexanone	8.8	U	8.8	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
m-Xylene & p-Xylene	1.2	U	1.2	4.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-254

Lab Sample ID: 660-28287-7
Client Matrix: Water

Date Sampled: 03/19/2009 1650
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 03/23/2009 1930
Date Prepared: 03/23/2009 1930

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	50	U	50	100
Bromobenzene	58	U	58	100
Chlorobromomethane	58	U	58	100
Dichlorobromomethane	35	U	35	100
Bromoform	58	U	58	100
Bromomethane	250	U	250	500
n-Butylbenzene	67	U	67	100
sec-Butylbenzene	63	U	63	100
tert-Butylbenzene	84	U	84	100
Carbon tetrachloride	42	U	42	100
Chlorobenzene	63	U	63	100
Chloroethane	250	U	250	500
Chloroform	90	U	90	100
Chloromethane	100	U	100	400
2-Chlorotoluene	65	U	65	100
4-Chlorotoluene	52	U	52	100
Chlorodibromomethane	34	U	34	100
1,2-Dibromo-3-Chloropropane	250	U	250	500
Ethylene Dibromide	50	U	50	100
Dibromomethane	41	U	41	100
1,2-Dichlorobenzene	44	U	44	100
1,3-Dichlorobenzene	64	U	64	100
1,4-Dichlorobenzene	52	U	52	100
Dichlorodifluoromethane	250	U	250	500
1,1-Dichloroethane	52	U	52	100
1,2-Dichloroethane	57	U	57	100
1,1,1,2-Tetrachloroethane	63	U	63	100
1,1-Dichloroethene	45	U	45	100
cis-1,2-Dichloroethene	65	U	65	100
trans-1,2-Dichloroethene	44	U	44	100
1,2-Dichloropropane	52	U	52	100
1,3-Dichloropropane	39	U	39	100
2,2-Dichloropropane	36	U	36	100
1,1-Dichloropropene	31	U	31	100
cis-1,3-Dichloropropene	14	U	14	100
trans-1,3-Dichloropropene	14	U	14	100
Ethylbenzene	44	U	44	100
Hexachlorobutadiene	40	U	40	100
Isopropylbenzene	19	U	19	100
4-Isopropyltoluene	69	U	69	100
Methylene Chloride	400	U	400	500
Naphthalene	250	U	250	500
N-Propylbenzene	59	U	59	100
Styrene	98	U	98	200

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-254

Lab Sample ID: 660-28287-7
Client Matrix: Water

Date Sampled: 03/19/2009 1650
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 03/23/2009 1930
Date Prepared: 03/23/2009 1930

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	15	U	15	100
Tetrachloroethene	8500		50	100
Toluene	51	U	51	100
1,2,3-Trichlorobenzene	77	U	77	100
1,2,4-Trichlorobenzene	58	U	58	100
1,1,1-Trichloroethane	46	U	46	100
1,1,2-Trichloroethane	47	U	47	100
Trichloroethene	300		50	100
Trichlorofluoromethane	250	U	250	500
1,2,3-Trichloropropane	18	U	18	100
1,2,4-Trimethylbenzene	86	U	86	100
1,3,5-Trimethylbenzene	54	U	54	100
Vinyl chloride	50	U	50	100
o-Xylene	50	U	50	100
Acetone	990	U	990	2000
2-Butanone (MEK)	840	U	840	1000
4-Methyl-2-pentanone (MIBK)	380	U	380	1000
Carbon disulfide	85	U	85	100
2-Hexanone	440	U	440	1000
Methyl tert-butyl ether	44	U	44	100
m-Xylene & p-Xylene	60	U	60	200

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	103	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: Trip Blank

Lab Sample ID: 660-28287-8
Client Matrix: Water

Date Sampled: 03/19/2009 0000
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/20/2009 2258
Date Prepared: 03/20/2009 2258

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2015.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: Trip Blank

Lab Sample ID: 660-28287-8
Client Matrix: Water

Date Sampled: 03/19/2009 0000
Date Received: 03/20/2009 1100

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/20/2009 2258
Date Prepared: 03/20/2009 2258

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2015.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	98	77 - 122
4-Bromofluorobenzene	102	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-36

Lab Sample ID: 660-28287-1
Client Matrix: Water

Date Sampled: 03/19/2009 1100
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 03/25/2009 0040
Date Prepared: 03/25/2009 0040

Analysis Batch: 660-76773

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2432.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	9.9		2.7	5.0

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-127

Lab Sample ID: 660-28287-2
Client Matrix: Water

Date Sampled: 03/19/2009 1220
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1728
Date Prepared: 03/23/2009 1728

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2319.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	330		27	50

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: **MW-77**

Lab Sample ID: 660-28287-3
Client Matrix: Water

Date Sampled: 03/19/2009 1230
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 03/23/2009 1753
Date Prepared: 03/23/2009 1753

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2320.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	160		2.2	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: **MW-37**

Lab Sample ID: 660-28287-4
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 50
Date Analyzed: 03/23/2009 1817
Date Prepared: 03/23/2009 1817

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2321.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	220		27	50

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: MW-40

Lab Sample ID: 660-28287-5
Client Matrix: Water

Date Sampled: 03/19/2009 1630
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/23/2009 1842
Date Prepared: 03/23/2009 1842

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2322.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	8.1	I	5.4	10

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: EW-105

Lab Sample ID: 660-28287-6
Client Matrix: Water

Date Sampled: 03/19/2009 1635
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/23/2009 1906
Date Prepared: 03/23/2009 1906

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2323.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.1	U	1.1	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: **MW-254**

Lab Sample ID: 660-28287-7
Client Matrix: Water

Date Sampled: 03/19/2009 1650
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 100
Date Analyzed: 03/23/2009 1930
Date Prepared: 03/23/2009 1930

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	54	U	54	100

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: **Trip Blank**

Lab Sample ID: 660-28287-8
Client Matrix: Water

Date Sampled: 03/19/2009 0000
Date Received: 03/20/2009 1100

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/20/2009 2258
Date Prepared: 03/20/2009 2258

Analysis Batch: 660-76648

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2015.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	0.54	U	0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28287-1
Sdg Number: 660-28287

Client Sample ID: EW-105

Lab Sample ID: 660-28287-6
Client Matrix: Water

Date Sampled: 03/19/2009 1635
Date Received: 03/20/2009 1100

6010B Metals (ICP)-Total Recoverable

Method: 6010B
Preparation: 3005A
Dilution: 1.0
Date Analyzed: 03/24/2009 1034
Date Prepared: 03/23/2009 0835

Analysis Batch: 660-76696
Prep Batch: 660-76607

Instrument ID: TJA ICP TRACE
Lab File ID: 9C24A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Aluminum	0.050	U	0.050	0.20
Arsenic	0.0040	U	0.0040	0.010
Beryllium	0.00050	U	0.00050	0.0020
Cadmium	0.0010	U	0.0010	0.0040
Chromium	0.0020	U	0.0020	0.010
Copper	0.0029	U	0.0029	0.010
Iron	0.99		0.050	0.20
Nickel	0.026		0.0020	0.0080
Lead	0.0020	U	0.0020	0.010
Zinc	0.026		0.0050	0.020

Serial Number 06422

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634

Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location

Phone: 6660-28287
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	B0038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL: kathy.thalman@arcadis-us.com	
CLIENT ADDRESS: 3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ●
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 12

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B	REQUIRED ANALYSIS: 8260B-SIM	REQUIRED ANALYSIS: 300.0_28D	REQUIRED ANALYSIS: 6010B	PRESERVATIVE: HCl	PRESERVATIVE: NONE	PRESERVATIVE: NITRIC ACID	REMARKS
								NUMBER OF CONTAINERS SUBMITTED							
3/19/09	1100	MW-36	G	X				4	1	1*					*Do not run the
	1220	MW-127						4	1	1*					6010B analysis for
	1230	MW-77						4	1	1*					these samples (*) on
	1630	MW-37						3	1	1*					this chain. The
	1630	MW-40						4	1	1*					only sample from
	1635	EW-105						4	1	1					this chain that
↓	1650	MW-254	↓	↓				4	1	1*					should be analyzed
															for 6010B is
															EW-105. Thanks.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	3/16/09	1700	Ken Day	3/20/09	0945		3/20/09	1100
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/20/09	0945	Amanda Hamm	3/20/09	1100

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hamm	3/20/09	1100			6660-28287	3.5 °C CU07	

TAL8240-660 (1207)

Page 62 of 64

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28257

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #9991R
Review Level: Tier III
Project: B0038055.0015.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28257 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-108 (IRAP)	660-28257-1	WATER	3/18/2009		X				
MW-81 (IRAP)	660-28257-2	WATER	3/18/2009		X				
MW-128 (IRAP)	660-28257-3	WATER	3/18/2009		X				
MW-42 (IRAP)	660-28257-4	WATER	3/18/2009		X				

Note:

1. The Bromide analysis that was performed in this SDG was not validated.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on a sample location associated with this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

A field duplicate was not performed on a sample location associated with this SDG.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

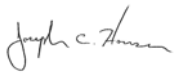
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)					X
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 13, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 29, 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-108

Lab Sample ID: 660-28257-1
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2009 0035
Date Prepared: 03/21/2009 0035

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2019.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
tert-Butylbenzene	0.84	U	0.84	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
2-Chlorotoluene	0.65	U	0.65	1.0
4-Chlorotoluene	0.52	U	0.52	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
Dibromomethane	0.41	U	0.41	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
Dichlorodifluoromethane	2.5	U	2.5	5.0
1,1-Dichloroethane	1.1		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Methylene Chloride	4.0	U	4.0	5.0
Naphthalene	2.5	U	2.5	5.0
N-Propylbenzene	0.59	U	0.59	1.0
Styrene	0.98	U	0.98	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-108

Lab Sample ID: 660-28257-1
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2009 0035
Date Prepared: 03/21/2009 0035

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2019.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
Vinyl chloride	0.50	U	0.50	1.0
o-Xylene	0.50	U	0.50	1.0
Acetone	9.9	U	9.9	20
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Carbon disulfide	0.85	U	0.85	1.0
2-Hexanone	4.4	U	4.4	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	98	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	98	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-81

Lab Sample ID: 660-28257-2
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 03/23/2009 1526
Date Prepared: 03/23/2009 1526

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	2.0	U	2.0	4.0
Bromobenzene	2.3	U	2.3	4.0
Chlorobromomethane	2.3	U	2.3	4.0
Dichlorobromomethane	1.4	U	1.4	4.0
Bromoform	2.3	U	2.3	4.0
Bromomethane	10	U	10	20
n-Butylbenzene	2.7	U	2.7	4.0
sec-Butylbenzene	2.5	U	2.5	4.0
tert-Butylbenzene	3.4	U	3.4	4.0
Carbon tetrachloride	1.7	U	1.7	4.0
Chlorobenzene	2.5	U	2.5	4.0
Chloroethane	10	U	10	20
Chloroform	3.6	U	3.6	4.0
Chloromethane	4.0	U	4.0	16
2-Chlorotoluene	2.6	U	2.6	4.0
4-Chlorotoluene	2.1	U	2.1	4.0
Chlorodibromomethane	1.4	U	1.4	4.0
1,2-Dibromo-3-Chloropropane	10	U	10	20
Ethylene Dibromide	2.0	U	2.0	4.0
Dibromomethane	1.6	U	1.6	4.0
1,2-Dichlorobenzene	1.8	U	1.8	4.0
1,3-Dichlorobenzene	2.6	U	2.6	4.0
1,4-Dichlorobenzene	2.1	U	2.1	4.0
Dichlorodifluoromethane	10	U	10	20
1,1-Dichloroethane	6.8		2.1	4.0
1,2-Dichloroethane	2.3	U	2.3	4.0
1,1,1,2-Tetrachloroethane	2.5	U	2.5	4.0
1,1-Dichloroethene	73		1.8	4.0
cis-1,2-Dichloroethene	55		2.6	4.0
trans-1,2-Dichloroethene	1.8	U	1.8	4.0
1,2-Dichloropropane	2.1	U	2.1	4.0
1,3-Dichloropropane	1.6	U	1.6	4.0
2,2-Dichloropropane	1.4	U	1.4	4.0
1,1-Dichloropropene	1.2	U	1.2	4.0
cis-1,3-Dichloropropene	0.56	U	0.56	4.0
trans-1,3-Dichloropropene	0.56	U	0.56	4.0
Ethylbenzene	1.8	U	1.8	4.0
Hexachlorobutadiene	1.6	U	1.6	4.0
Isopropylbenzene	0.76	U	0.76	4.0
4-Isopropyltoluene	2.8	U	2.8	4.0
Methylene Chloride	16	U	16	20
Naphthalene	10	U	10	20
N-Propylbenzene	2.4	U	2.4	4.0
Styrene	3.9	U	3.9	8.0

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-81

Lab Sample ID: 660-28257-2
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 03/23/2009 1526
Date Prepared: 03/23/2009 1526

Analysis Batch: 660-76717

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.60	U	0.60	4.0
Tetrachloroethene	2.0	U	2.0	4.0
Toluene	2.0	U	2.0	4.0
1,2,3-Trichlorobenzene	3.1	U	3.1	4.0
1,2,4-Trichlorobenzene	2.3	U	2.3	4.0
1,1,1-Trichloroethane	1.8	U	1.8	4.0
1,1,2-Trichloroethane	1.9	U	1.9	4.0
Trichloroethene	230		2.0	4.0
Trichlorofluoromethane	10	U	10	20
1,2,3-Trichloropropane	0.72	U	0.72	4.0
1,2,4-Trimethylbenzene	3.4	U	3.4	4.0
1,3,5-Trimethylbenzene	2.2	U	2.2	4.0
Vinyl chloride	2.0	U	2.0	4.0
o-Xylene	2.0	U	2.0	4.0
Acetone	40	U	40	80
2-Butanone (MEK)	34	U	34	40
4-Methyl-2-pentanone (MIBK)	15	U	15	40
Carbon disulfide	3.4	U	3.4	4.0
2-Hexanone	18	U	18	40
Methyl tert-butyl ether	1.8	U	1.8	4.0
m-Xylene & p-Xylene	2.4	U	2.4	8.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	103	74 - 126
Dibromofluoromethane	100	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-128

Lab Sample ID: 660-28257-3
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/21/2009 0124
Date Prepared: 03/21/2009 0124

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2021.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	1.0	U	1.0	2.0
Bromobenzene	1.2	U	1.2	2.0
Chlorobromomethane	1.2	U	1.2	2.0
Dichlorobromomethane	0.70	U	0.70	2.0
Bromoform	1.2	U	1.2	2.0
Bromomethane	5.0	U	5.0	10
n-Butylbenzene	1.3	U	1.3	2.0
sec-Butylbenzene	1.3	U	1.3	2.0
tert-Butylbenzene	1.7	U	1.7	2.0
Carbon tetrachloride	0.84	U	0.84	2.0
Chlorobenzene	1.3	U	1.3	2.0
Chloroethane	5.0	U	5.0	10
Chloroform	1.8	U	1.8	2.0
Chloromethane	2.0	U	2.0	8.0
2-Chlorotoluene	1.3	U	1.3	2.0
4-Chlorotoluene	1.0	U	1.0	2.0
Chlorodibromomethane	0.68	U	0.68	2.0
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	10
Ethylene Dibromide	1.0	U	1.0	2.0
Dibromomethane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.88	U	0.88	2.0
1,3-Dichlorobenzene	1.3	U	1.3	2.0
1,4-Dichlorobenzene	1.0	U	1.0	2.0
Dichlorodifluoromethane	5.0	U	5.0	10
1,1-Dichloroethane	29		1.0	2.0
1,2-Dichloroethane	1.1	U	1.1	2.0
1,1,1,2-Tetrachloroethane	1.3	U	1.3	2.0
1,1-Dichloroethene	83		0.90	2.0
cis-1,2-Dichloroethene	3.6		1.3	2.0
trans-1,2-Dichloroethene	0.88	U	0.88	2.0
1,2-Dichloropropane	1.0	U	1.0	2.0
1,3-Dichloropropane	0.78	U	0.78	2.0
2,2-Dichloropropane	0.72	U	0.72	2.0
1,1-Dichloropropene	0.62	U	0.62	2.0
cis-1,3-Dichloropropene	0.28	U	0.28	2.0
trans-1,3-Dichloropropene	0.28	U	0.28	2.0
Ethylbenzene	0.88	U	0.88	2.0
Hexachlorobutadiene	0.80	U	0.80	2.0
Isopropylbenzene	0.38	U	0.38	2.0
4-Isopropyltoluene	1.4	U	1.4	2.0
Methylene Chloride	8.0	U	8.0	10
Naphthalene	5.0	U	5.0	10
N-Propylbenzene	1.2	U	1.2	2.0
Styrene	2.0	U	2.0	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-128

Lab Sample ID: 660-28257-3
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/21/2009 0124
Date Prepared: 03/21/2009 0124

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2021.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	0.30	U	0.30	2.0
Tetrachloroethene	1.3	I	1.0	2.0
Toluene	1.0	U	1.0	2.0
1,2,3-Trichlorobenzene	1.5	U	1.5	2.0
1,2,4-Trichlorobenzene	1.2	U	1.2	2.0
1,1,1-Trichloroethane	0.92	U	0.92	2.0
1,1,2-Trichloroethane	0.94	U	0.94	2.0
Trichloroethene	49		1.0	2.0
Trichlorofluoromethane	5.0	U	5.0	10
1,2,3-Trichloropropane	0.36	U	0.36	2.0
1,2,4-Trimethylbenzene	1.7	U	1.7	2.0
1,3,5-Trimethylbenzene	1.1	U	1.1	2.0
Vinyl chloride	1.0	U	1.0	2.0
o-Xylene	1.0	U	1.0	2.0
Acetone	1000		20	40
2-Butanone (MEK)	17	U	17	20
4-Methyl-2-pentanone (MIBK)	7.6	U	7.6	20
Carbon disulfide	1.7	U	1.7	2.0
2-Hexanone	8.8	U	8.8	20
Methyl tert-butyl ether	0.88	U	0.88	2.0
m-Xylene & p-Xylene	1.2	U	1.2	4.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	99	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-42

Lab Sample ID: 660-28257-4
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/21/2009 0149
Date Prepared: 03/21/2009 0149

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2022.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Benzene	5.0	U	5.0	10
Bromobenzene	5.8	U	5.8	10
Chlorobromomethane	5.8	U	5.8	10
Dichlorobromomethane	3.5	U	3.5	10
Bromoform	5.8	U	5.8	10
Bromomethane	25	U	25	50
n-Butylbenzene	6.7	U	6.7	10
sec-Butylbenzene	6.3	U	6.3	10
tert-Butylbenzene	8.4	U	8.4	10
Carbon tetrachloride	4.2	U	4.2	10
Chlorobenzene	6.3	U	6.3	10
Chloroethane	25	U	25	50
Chloroform	9.0	U	9.0	10
Chloromethane	10	U	10	40
2-Chlorotoluene	6.5	U	6.5	10
4-Chlorotoluene	5.2	U	5.2	10
Chlorodibromomethane	3.4	U	3.4	10
1,2-Dibromo-3-Chloropropane	25	U	25	50
Ethylene Dibromide	5.0	U	5.0	10
Dibromomethane	4.1	U	4.1	10
1,2-Dichlorobenzene	4.4	U	4.4	10
1,3-Dichlorobenzene	6.4	U	6.4	10
1,4-Dichlorobenzene	5.2	U	5.2	10
Dichlorodifluoromethane	25	U	25	50
1,1-Dichloroethane	37		5.2	10
1,2-Dichloroethane	5.7	U	5.7	10
1,1,1,2-Tetrachloroethane	6.3	U	6.3	10
1,1-Dichloroethene	66		4.5	10
cis-1,2-Dichloroethene	35		6.5	10
trans-1,2-Dichloroethene	4.4	U	4.4	10
1,2-Dichloropropane	5.2	U	5.2	10
1,3-Dichloropropane	3.9	U	3.9	10
2,2-Dichloropropane	3.6	U	3.6	10
1,1-Dichloropropene	3.1	U	3.1	10
cis-1,3-Dichloropropene	1.4	U	1.4	10
trans-1,3-Dichloropropene	1.4	U	1.4	10
Ethylbenzene	4.4	U	4.4	10
Hexachlorobutadiene	4.0	U	4.0	10
Isopropylbenzene	1.9	U	1.9	10
4-Isopropyltoluene	6.9	U	6.9	10
Methylene Chloride	40	U	40	50
Naphthalene	25	U	25	50
N-Propylbenzene	5.9	U	5.9	10
Styrene	9.8	U	9.8	20

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-42

Lab Sample ID: 660-28257-4
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/21/2009 0149
Date Prepared: 03/21/2009 0149

Analysis Batch: 660-76706

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2022.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,2,2-Tetrachloroethane	1.5	U	1.5	10
Tetrachloroethene	15		5.0	10
Toluene	5.1	U	5.1	10
1,2,3-Trichlorobenzene	7.7	U	7.7	10
1,2,4-Trichlorobenzene	5.8	U	5.8	10
1,1,1-Trichloroethane	4.6	U	4.6	10
1,1,2-Trichloroethane	4.7	U	4.7	10
Trichloroethene	920		5.0	10
Trichlorofluoromethane	25	U	25	50
1,2,3-Trichloropropane	1.8	U	1.8	10
1,2,4-Trimethylbenzene	8.6	U	8.6	10
1,3,5-Trimethylbenzene	5.4	U	5.4	10
Vinyl chloride	5.0	U	5.0	10
o-Xylene	5.0	U	5.0	10
Acetone	99	U	99	200
2-Butanone (MEK)	84	U	84	100
4-Methyl-2-pentanone (MIBK)	38	U	38	100
Carbon disulfide	8.5	U	8.5	10
2-Hexanone	44	U	44	100
Methyl tert-butyl ether	4.4	U	4.4	10
m-Xylene & p-Xylene	6.0	U	6.0	20

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	77 - 122
4-Bromofluorobenzene	101	74 - 126
Dibromofluoromethane	99	70 - 130

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-108

Lab Sample ID: 660-28257-1
Client Matrix: Water

Date Sampled: 03/18/2009 1200
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/21/2009 0035
Date Prepared: 03/21/2009 0035

Analysis Batch: 660-76648

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2019.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	6.6		0.54	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-81

Lab Sample ID: 660-28257-2
Client Matrix: Water

Date Sampled: 03/18/2009 1720
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 4.0
Date Analyzed: 03/23/2009 1526
Date Prepared: 03/23/2009 1526

Analysis Batch: 660-76718

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2314.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	99		2.2	4.0

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-128

Lab Sample ID: 660-28257-3
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 2.0
Date Analyzed: 03/21/2009 0124
Date Prepared: 03/21/2009 0124

Analysis Batch: 660-76648

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2021.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	4.0		1.1	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28257-1
Sdg Number: 660-28257

Client Sample ID: MW-42

Lab Sample ID: 660-28257-4
Client Matrix: Water

Date Sampled: 03/18/2009 1900
Date Received: 03/19/2009 1115

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 10
Date Analyzed: 03/21/2009 0149
Date Prepared: 03/21/2009 0149

Analysis Batch: 660-76648

Instrument ID: BVMJ GC/MS
Lab File ID: 1JC2022.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 1.0 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	28		5.4	10

Serial Number 06419

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	B0038055.0020.00007	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Kathy Thalman	813.903.3138	813.903.3157
CLIENT NAME	CLIENT E-MAIL	
ARCADIS	kathy.thalman@arcadis-us.com	
CLIENT ADDRESS		
3350 Buschwood Park Dr., Suite 100, Tampa, FL 33618		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 3 OF 6

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 16

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 8260B_SIM	REQUIRED ANALYSIS: 300.0_28D	REQUIRED ANALYSIS: 6010B	REMARKS
		PRESERVATIVE						HCL	NONE	NITRIC ACID	
		NUMBER OF CONTAINERS SUBMITTED									
3/18/09	1200	MW-108	G	X				4	1	1	
	1720	MW-81						4	1	1	
	1900	MW-128						4	1	1	
	1900	MW-42						4	1	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000		3.19.09	1115
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS				3/19/09	1000	Amanda Hanson	3/19/09	1115

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
Amanda Hanson	3/19/09	1115	YES ○ NO ○		660-28257	4.5°C CU07	

(660-28257)

TAL8240-660 (1207)

Page 38 of 40

R625-EDC-001214-0

ARCADIS
Infrastructure, environment, facilities

Imagine the result

Lockheed Martin- Tallevast

Data Review

TALLEVAST, FLORIDA

Volatiles Analyses

SDG# 660-28463

Analyses Performed By:
TestAmerica Laboratories
Tampa, Florida

Report: #10001R
Review Level: Tier III
Project: B0038055.0015.00001

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #660-28463 for samples collected in association with the Lockheed Martin - Tallevast Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-70 (IRAP)	660-28463-1	WATER	3/26/2009		X				
Dup-05 (IRAP)	660-28463-2	WATER	3/26/2009	MW-70 (IRAP)	X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United Stated Environmental Protection Agency) USEPA SW-846 Method 8260B total ion monitoring (TIM) and 8260C selective ion monitoring (SIM) by isotope dilution. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999 and January 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260B/C	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cooled @ 4 °C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds analyzed by 8260B associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99. The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target

compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

4.2 Continuing Calibration

All target compounds analyzed by 8260B associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) with the exception of 1,4-Dioxane must exhibit a %D less than the control limit of (50%). The compounds analyzed by method 8260B TIM must exhibit a RRF value greater than the control limit (0.05). The analysis of the target compound 1,4-Dioxane performed by method 8260C SIM by isotope dilution must exhibit a RRF value greater than the control limit (0.005).

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
MW-70 (IRAP) Dup-05 (IRAP)	CCV %D	Acetone	31.9%
		Bromomethane	-57.0%
		Chloroethane	24.2%
		Dichlorodifluoromethane	-27.4%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01[1]	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01[1]	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 15% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
Continuing Calibration	%D >20% and <90% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% and <90% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90%	Non-detect	R
		Detect	J

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketenes, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on a sample location associated with this SDG.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-70 (IRAP)/Dup-05 (IRAP)	1,1-Dichloroethane	11	11	0.0%
	1,1-Dichloroethene	2.4	2.5	AC
	cis-1,2-Dichloroethene	1.4	ND(0.65)	AC
	Trichloroethene	18	18	0.0%

AC Acceptable
NC Not compliant
ND Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

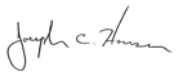
DATA VALIDATION CHECKLIST FOR VOCs

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
C. Trip blanks					X
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS)					X
Matrix Spike Duplicate(MSD)					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (%D)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present				X	

VOCs; SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Percent relative difference
%R Percent recovery
RPD Relative percent difference
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

DATE: April 15, 2009

PEER REVIEW BY: Dennis Capria

DATE: April 29 , 2009

CORRECTED SAMPLE ANALYSIS DATA SHEETS AND COCs

Analytical Data

Client: ARCADIS

Job Number: 660-28463-1
Sdg Number: 660-28463

Client Sample ID: MW-70

Lab Sample ID: 660-28463-1
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1209
Date Prepared: 03/31/2009 1209

Analysis Batch: 660-77067

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3112.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	11		0.52	1.0
1,1-Dichloroethene	2.4		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	1.4		0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28463-1
Sdg Number: 660-28463

Client Sample ID: MW-70

Lab Sample ID: 660-28463-1
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1209
Date Prepared: 03/31/2009 1209

Analysis Batch: 660-77067

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3112.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	18		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	89	74 - 126
Dibromofluoromethane	110	70 - 130
Toluene-d8 (Surr)	118	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28463-1
Sdg Number: 660-28463

Client Sample ID: DUP-05

Lab Sample ID: 660-28463-2FD
Client Matrix: Water

Date Sampled: 03/26/2009 0000
Date Received: 03/27/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1226
Date Prepared: 03/31/2009 1226

Analysis Batch: 660-77067

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3113.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
1,1-Dichloroethane	11		0.52	1.0
1,1-Dichloroethene	2.5		0.45	1.0
1,1-Dichloropropene	0.31	U	0.31	1.0
1,2,3-Trichlorobenzene	0.77	U	0.77	1.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
1,2,4-Trichlorobenzene	0.58	U	0.58	1.0
1,2,4-Trimethylbenzene	0.86	U	0.86	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
1,3,5-Trimethylbenzene	0.54	U	0.54	1.0
1,3-Dichlorobenzene	0.64	U	0.64	1.0
1,3-Dichloropropane	0.39	U	0.39	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
2,2-Dichloropropane	0.36	U	0.36	1.0
2-Chlorotoluene	0.65	U	0.65	1.0
2-Hexanone	4.4	U	4.4	10
4-Chlorotoluene	0.52	U	0.52	1.0
4-Isopropyltoluene	0.69	U	0.69	1.0
Acetone	9.9	U	9.9	20
Benzene	0.50	U	0.50	1.0
Bromobenzene	0.58	U	0.58	1.0
Bromoform	0.58	U	0.58	1.0
Bromomethane	2.5	U J	2.5	5.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Chlorodibromomethane	0.34	U	0.34	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Chloromethane	1.0	U	1.0	4.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
Dibromomethane	0.41	U	0.41	1.0
Dichlorobromomethane	0.35	U	0.35	1.0
Dichlorodifluoromethane	2.5	U J	2.5	5.0
Ethylbenzene	0.44	U	0.44	1.0
Ethylene Dibromide	0.50	U	0.50	1.0
Hexachlorobutadiene	0.40	U	0.40	1.0

Analytical Data

Client: ARCADIS

Job Number: 660-28463-1
Sdg Number: 660-28463

Client Sample ID: DUP-05

Lab Sample ID: 660-28463-2FD
Client Matrix: Water

Date Sampled: 03/26/2009 0000
Date Received: 03/27/2009 1725

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1226
Date Prepared: 03/31/2009 1226

Analysis Batch: 660-77067

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3113.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Isopropylbenzene	0.19	U	0.19	1.0
2-Butanone (MEK)	8.4	U	8.4	10
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Methyl tert-butyl ether	0.44	U	0.44	1.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
Methylene Chloride	4.0	U	4.0	5.0
m-Xylene & p-Xylene	0.60	U	0.60	2.0
Naphthalene	2.5	U	2.5	5.0
n-Butylbenzene	0.67	U	0.67	1.0
N-Propylbenzene	0.59	U	0.59	1.0
o-Xylene	0.50	U	0.50	1.0
sec-Butylbenzene	0.63	U	0.63	1.0
Styrene	0.98	U	0.98	2.0
tert-Butylbenzene	0.84	U	0.84	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Trichloroethene	18		0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
Vinyl chloride	0.50	U	0.50	1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	92	74 - 126
Dibromofluoromethane	112	70 - 130
Toluene-d8 (Surr)	92	77 - 122

Analytical Data

Client: ARCADIS

Job Number: 660-28463-1
Sdg Number: 660-28463

Client Sample ID: **MW-70**

Lab Sample ID: 660-28463-1
Client Matrix: Water

Date Sampled: 03/26/2009 1658
Date Received: 03/27/2009 1725

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1209
Date Prepared: 03/31/2009 1209

Analysis Batch: 660-77068

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3112.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Analytical Data

Client: ARCADIS

Job Number: 660-28463-1
Sdg Number: 660-28463

Client Sample ID: DUP-05

Lab Sample ID: 660-28463-2FD
Client Matrix: Water

Date Sampled: 03/26/2009 0000
Date Received: 03/27/2009 1725

8260C SIM/ID 1,4-Dioxane by SIM/Isotopic Dilution

Method: 8260C SIM/ID
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 03/31/2009 1226
Date Prepared: 03/31/2009 1226

Analysis Batch: 660-77068

Instrument ID: BVMH GC/MS
Lab File ID: 1HC3113.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,4-Dioxane	1.0	U	1.0	2.0

Serial Number 12243

R625-EDC-001214-0

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

IRAP Quarterly Monitoring

TestAmerica Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634
Website: www.testamericainc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

28463

Alternate Laboratory Name/Location
Phone:
Fax:

PAGE 1 OF 1

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Tallevast - IRAP	80038055.0020.00002	FL
SAMPLER'S SIGNATURE	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Kathy Thalman	CLIENT PHONE: 813.903.3138	CLIENT FAX: 813.903.3157
CLIENT NAME: ARCADIS	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

STANDARD REPORT DELIVERY ●
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 4

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	REQUIRED ANALYSIS: 82608	82608_SIM	300.0 - 28D (Bromide)	601DB	PRESERVATIVE: HCl	NONE	H2SO4	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/26/09	1658	MW-70	G	X				4	*	—						* Sample for
3/26/09	—	DUP-05	G	X				4	*	—						bromide analysis
																is part of bromide
																& sulfate analysis
																under UIC chain

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Lisa Kumer	3/27/09	1725			
RECEIVED BY: (SIGNATURE) EMPTY CONTAINERS	DATE	TIME	RECEIVED BY: (SIGNATURE) Carol McNulty	DATE 3/27/09	TIME 1725	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES ○ NO ○	CUSTODY SEAL NO.	TAMPA LOG NO.	COOLER TEMP. UPON RECEIPT	LABORATORY REMARKS
	3-27-09	1725			660-28463	1.5°C CW-07	

TAL8240-660 (1207)

25 of 34

Page 23 of 24